

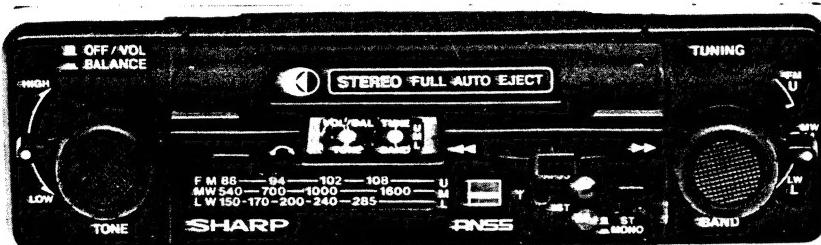


Service Manual

RG-5850H
RG-5850E



Auto Program Search System



Solid State In-dash Type Cassette Car Stereo Player with LW/MW/FM/FM Stereo Radio and APSS **MODEL RG-5850H/RG-5850E**

"In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used."

SPECIFICATIONS

GENERAL

Type Solid State In-dash Type 4-Track 2-channel Full Auto Stop/Auto Eject Cassette Car Stereo Player with built-in LW/MW/FM/FM STEREO 3-band Radio and APSS circuit

Power source 12 V (for negative earthing car only)

Output impedance 4 ohms/channel

Semiconductors 21-transistor (1-FET), 19 diode (2-LED) and 6-IC (integrated circuit)

Output power 8 + 8 W (maximum power)
5 W + 5 W (at 10% distortion)

S/N 54 dB

Dimensions 178 (W) x 130 (D) x 44 (H) mm

Weight 1.4 kg

TAPE PLAYER SECTION

Playback system ... 4-track, 2-channel Stereo

Using tape Philips standard compact cassette tape

Tape speed 4.75 cm/sec.

Wow and flutter 0.3% (DIN 45511)

Frequency response . 50Hz ~ 10kHz/-6dB

Fast forward/Rewind

time 120 seconds (@ C-60 cassette tape)

Motor D.C. motor with mechanical governor

RADIO SECTION

Frequency range ... LW 150 ~ 285kHz

MW 520 ~ 1,620kHz

FM 87.6 ~ 108MHz

IF LW/MW 452kHz

FM 10.7MHz

Sensitivity LW 400μV/20dB

MW 40μV/20dB

FM 2.5μV

SHARP CORPORATION OSAKA, JAPAN

PARTS LAYOUT

- | | |
|---|-----------------------------|
| (1) Tone Control | (7) FM Stereo Indicator |
| (2) Power Switch/Volume Control/Balance Control | (8) APSS Indicator |
| (3) Cassette Ejection/Fast-Forward & Rewind APSS Release Knob | (9) FM Stereo/Mono Selector |
| (4) Cassette Door | (10) Tuning Control |
| (5) Fast-Forward/Rewind/APSS Lever | (11) Band Selector |
| (6) Antenna Trimmer (TC102) | |

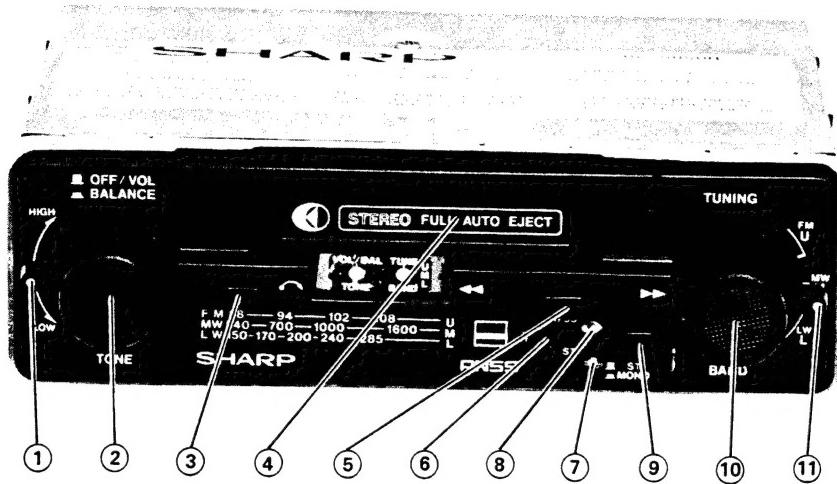


Figure 1 FRONT PARTS LAYOUT

- | |
|---|
| (12) Ground Terminal |
| (13) Antenna Socket |
| (14) DIN Socket, 6-pole (RG-5850H only) |
| (15) DIN Socket, 7-pole (RG-5850H only) |
| (16) DC Input Socket |
| (17) Speaker Socket |

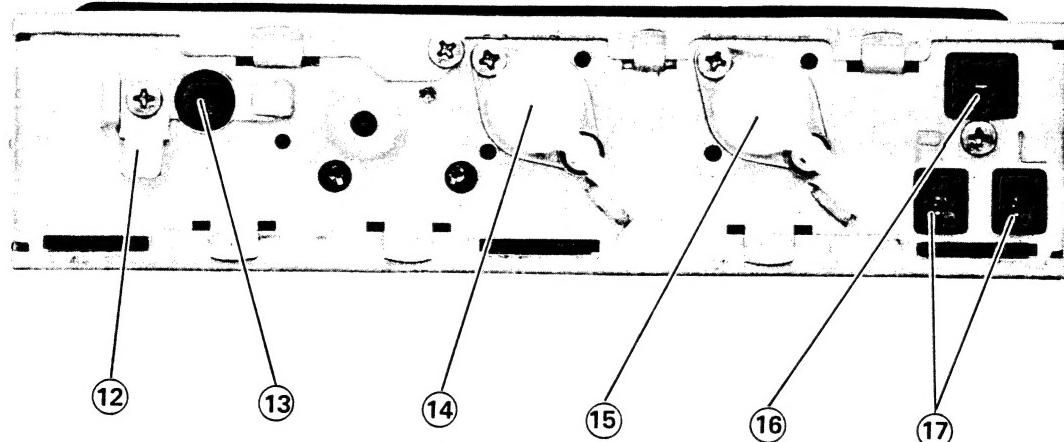


Figure 2 REAR PARTS LAYOUT

BLOCK DIAGRAM

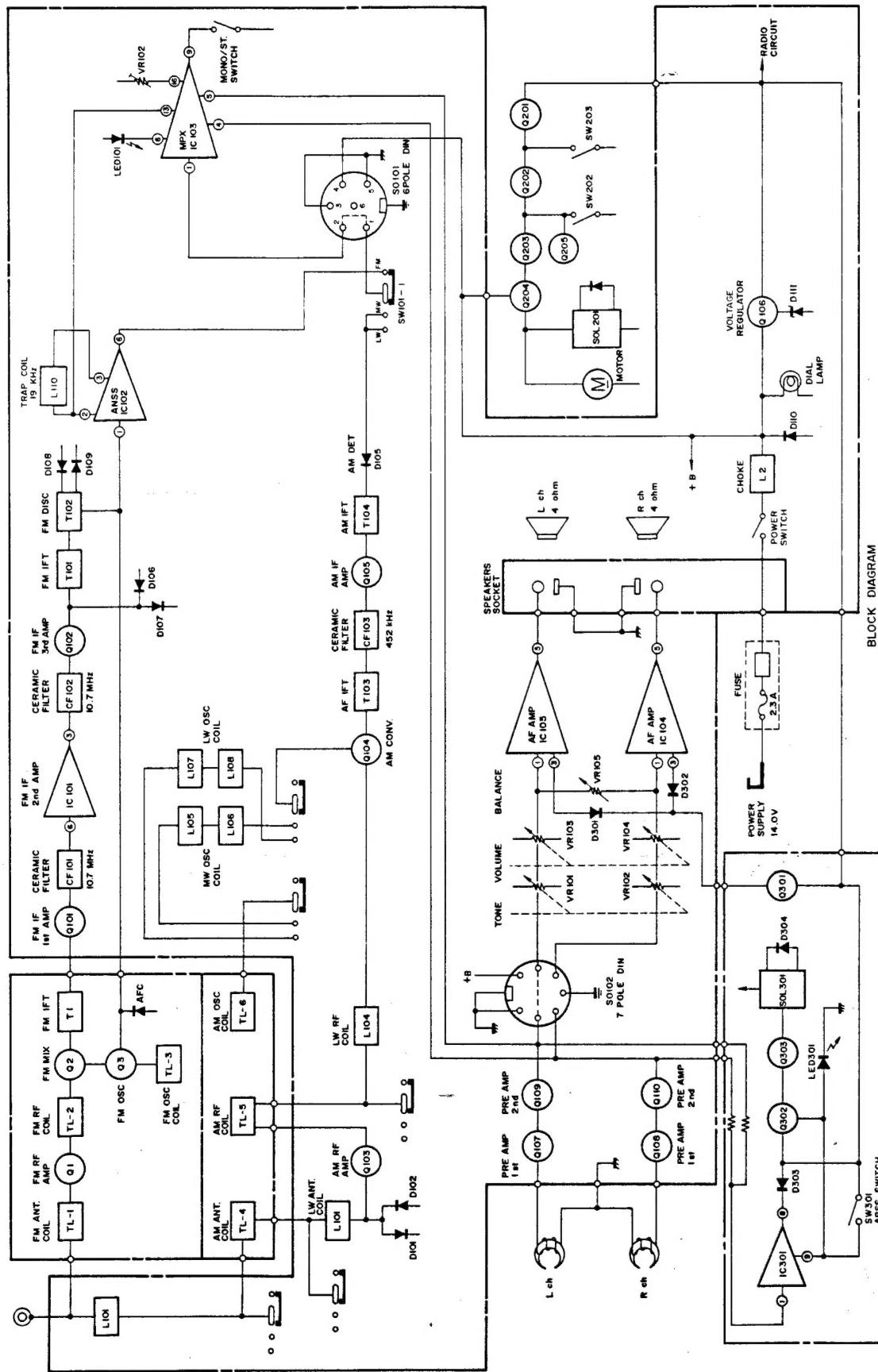


Figure 3 BLOCK DIAGRAM

GENERAL ALIGNMENT INSTRUCTIONS

Should it become necessary at any time to check the alignment of this receiver, proceed as follows;

- 1) Connect an output meter across the speaker voice coil lugs.
 - 2) Set the volume control at maximum.
 - 3) Attenuate the signals from the generator enough to swing the most sensitive range of the output meter.
 - 4) Use a non-metallic alignment tool.
 - 5) Repeat adjustments to insure good results.

LW/MW ALIGNMENT CHART

Set the band selector switch at "MW" or "LW" position.

| STEP | BAND | TEST STAGE | SIGNAL GENERATOR | | RECEIVER | | ADJUSTMENT |
|------|------|---------------|--|--|---------------------------------------|---|---|
| | | | CONNECTION TO RECEIVER | INPUT SIGNAL FREQUENCY | DIAL SETTING | REMARKS | |
| 1 | MW | IF | Connect signal generator through a dummy to the antenna socket. Ground lead to the receiver chassis. (Refer to Figure 4) | Exactly 452kHz (400Hz, 30%, AM modulated) | High end of dial (minimum inductance) | Adjust for maximum output on speaker voice coil lugs. | T103 T104 |
| 2 | MW | IF | Repeat until no further improvement can be made. | | | | |
| 3 | MW | Band Coverage | Same as step 1. | Exactly 515kHz (400Hz, 30%, AM modulated) | Low end of dial (maximum inductance) | Same as step 1. | Adjust the MW oscillator coil L106. |
| | | | Same as step 1. | Exactly 1650kHz (400Hz, 30%, AM modulated) | High end of dial (minimum inductance) | Same as step 1. | Adjust the MW oscillator trimmer TC104. |
| 4 | MW | Tracking | Same as step 1. | Exactly 1400kHz (400Hz, 30%, AM modulated) | 1400kHz. | Same as step 1. | Adjust the MW antenna trimmer TC102, and then adjust the MW RF trimmer TC103. |
| 5 | MW | | Repeat steps 3 and 4 until no further improvement can be made. | | | | |
| 6 | LW | Band Coverage | Same as step 1. | Exactly 145kHz (400Hz, 30%, AM modulated) | Low end of dial (maximum inductance) | Same as step 1. | Adjust the LW oscillator coil L108 |
| | | | Same as step 1. | Exactly 310kHz (400Hz, 30%, AM modulated) | High end of dial (minimum inductance) | Same as step 1. | Adjust the LW oscillator trimmer TC105 |
| 7 | LW | Tracking | Same as step 1. | Exactly 160kHz (400Hz, 30%, AM modulated) | 160kHz. | Same as step 1. | Adjust the LW antenna trimmer TC101. |
| | | | Same as step 1. | Exactly 260kHz (400Hz, 30%, AM modulated) | 260kHz. | Same as step 1. | Adjust the LW antenna coil L102, and then adjust the LW RF coil L104. |
| 8 | LW | | Repeat steps 6 and 7 until no further improvement can be made. | | | | |

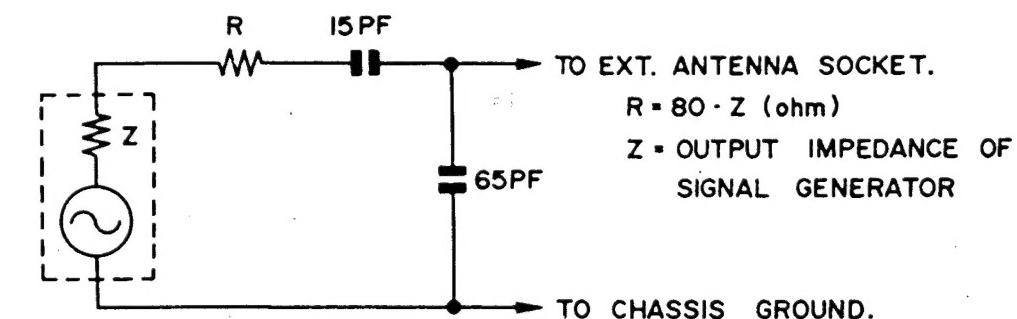


Figure 4 AM DUMMY

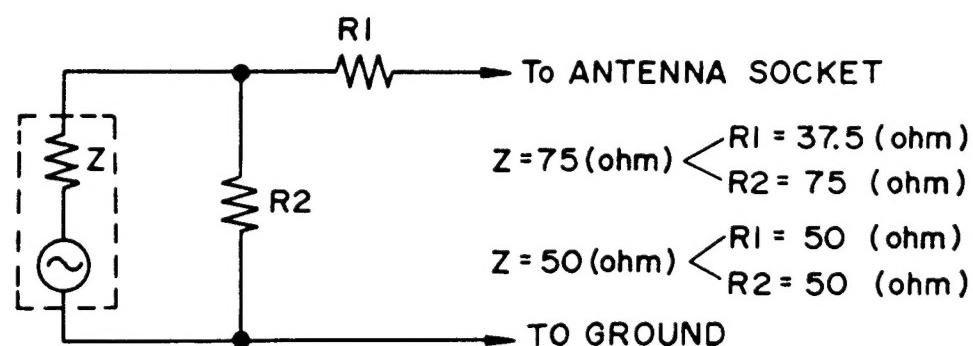
FM ALIGNMENT CHART

Set the band selector switch at "FM" position.

| STEP | TEST STAGE | SIGNAL GENERATOR | | RECEIVER | | ADJUSTMENT |
|------|----------------|---|--|---------------------------------------|---|---------------------------------|
| | | CONNECTION TO RECEIVER | INPUT SIGNAL FREQUENCY | DIAL SETTING | REMARKS | |
| 1 | IF (NOTE B) | Connect signal generator through a .022MFD capacitor to antenna socket (SO101). Connect generator ground lead to the receiver chassis. | Exactly 10.7MHz (400Hz, 30%, FM modulated) | Low end of dial. (maximum inductance) | Connect VTVM between test point TP102 and chassis ground. | Detune T102. Tune T1, and T101. |
| 2 | Ratio Detector | Same as step 1. | Exactly 10.7MHz (unmodulated) | Same as step 1. | See NOTE A. | See NOTE A. |
| 3 | | Repeat steps 1 until no further improvement can be made. | | | | |
| 4 | Band Coverage | Connect signal generator through a dummy including output impedance of signal generator to the car antenna socket (SO101) Ground lead of generator connected to the receiver chassis. (Refer to Figure 5) | Exactly 87.2MHz (400Hz, 30%, FM modulated) | Same as step 1. | Adjust for maximum output at speaker voice coil. | Oscillator trimmer TC2 |
| 5 | Tracking | Same as step 4. | Exactly 88MHz (400Hz, 30%, FM modulated) | 88MHz | Same as step 4. | RF trimmer TC1. |
| 6 | | Repeat steps 4 and 5 until no further improvement can be made. | | | | |

NOTE A

- 1) Connect VTVM (0.1 volt range D.C. Scale between test point TP102 and chassis ground.).
- 2) Adjust T102 for 0 volt on VTVM.
- 3) Change signal generator frequency 10.7MHz + 100kHz and -100kHz approximately.
- 4) Adjust T101 for balanced peaks. Peak separation should be approximately 200kHz.



Z=OUTPUT IMPEDANCE OF SIGNAL GENERATOR

Figure 5 FM DUMMY

NOTE B

Five kinds of ceramic filter (CF101, CF-202) are available for this set. The difference of central frequency from each other can be known by the color indication. The table below shows such a difference of IF and S curve, depending upon the color indications of the ceramic filter (CF101, CF102).

| Central Frequency | D | Black | 10.64MHz ± 30kHz |
|-------------------|---|--------|------------------|
| | B | Blue | 10.67MHz ± 30kHz |
| | A | Red | 10.70MHz ± 30kHz |
| | C | Orange | 10.73MHz ± 30kHz |
| | E | White | 10.76MHz ± 30kHz |

For their employment, it is required to use two ceramic filters of same type.

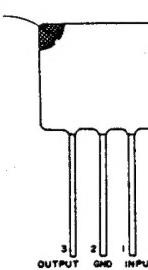


Figure 6

FM STEREO ALIGNMENT

Set the band selector switch at "FM" position and Stereo/mono Selector switch at "STEREO" position.

| STEP | SIGNAL GENERATOR | | RECEIVER | | METER CONNECTION | ADJUST-MENT |
|------|------------------------|------------------------|--------------|---|---|-------------|
| | CONNECTION TO RECEIVER | INPUT SIGNAL FREQUENCY | DIAL SETTING | REMARKS | | |
| 1 | | | 98MHz | Adjust so that the frequency becomes 19.0kHz. (In case an oscilloscope is connected to the test point TP101, adjust the signals to be 19kHz by using Lissajou's wave-form). | Connect the frequency counter (or oscilloscope) through a 100K ohm resistor to TP101 (12 pin of IC103). | VR102 |

If without the frequency counter, proceed with the alignment as follows. While receiving a FM stereo signal, turn the VR102 until the P.L.L. will be locked (when it is locked, the stereo indicator will be lit). Then, reversely turn the VR102 halfway and fix it.

ANSS ADJUSTMENT

(Pins 1, 6 and 15 described below are of IC102.)

1. Set the band selector switch at "FM" position.
2. Apply a 19 kHz signal of 30 mV to pin 1.
3. Connect a VTVM and/or an oscilloscope to pin 6.
4. Adjust L110 for minimum output at pin 6.
5. Then, apply a 1 kHz signal of 100 mV to pin 1.
6. Make sure that there is no output at pin 6, applying a 100 kHz signal of 50 mV further to pin 15.
7. Next, make sure that a 1 kHz signal of 100 mV appears at pin 6, connecting pin 15 to earthe.

THE INSTRUCTION OF FREQUENCY ADJUSTMENT

In order to comply with Pfg. Nr. 358/1970, please fix the low end of dial frequency (87.5MHz) and the high end of dial frequency (107.9MHz) on FM band, by adjusting oscillation trimmer (TC2) and oscillation coil (L4), respectively, as illustrated in Figure 7.

HEAD AZIMUTH ADJUSTMENT (Refer to Figure 7)

Standard Test Tape to be applied: Philips HU-71512 or the equivalent (TEAC MTT-113, VICTOR VTT-601).

- (1) Set the Player Unit on.
 - (2) Turn the azimuth adjusting screw until the output of the test tape (6.3kHz) is boosted up to the maximum.
- Caution: After completion of the adjustment, be sure to lock the adjusting screw in place, using glyptal or glue.

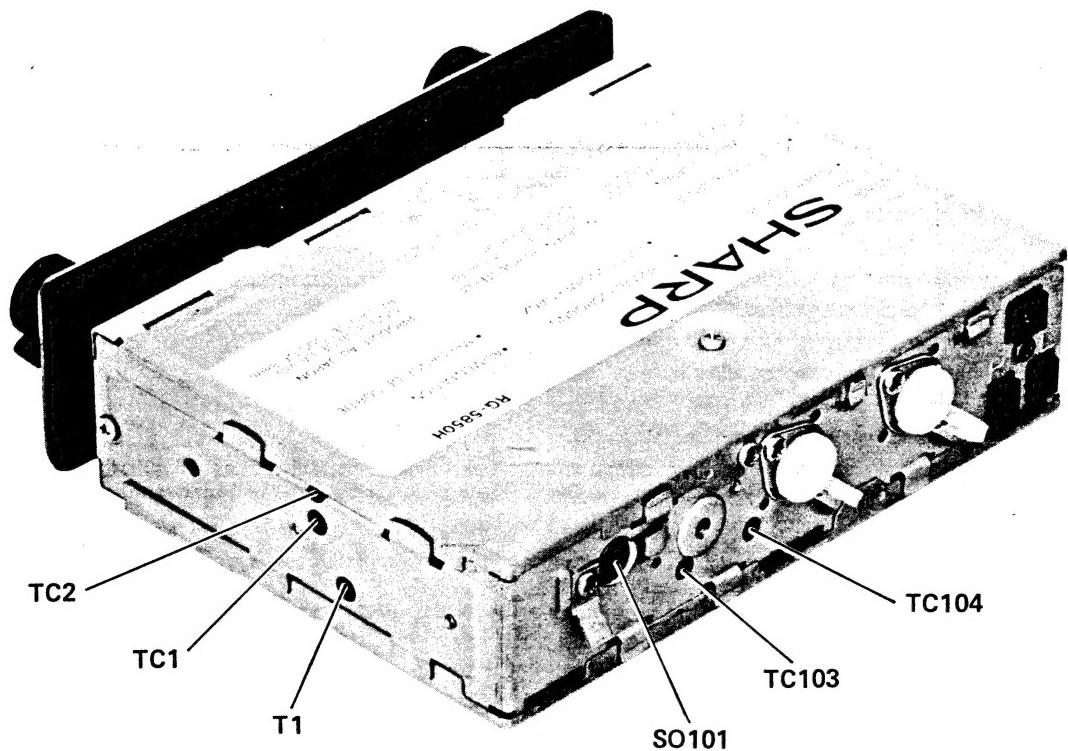
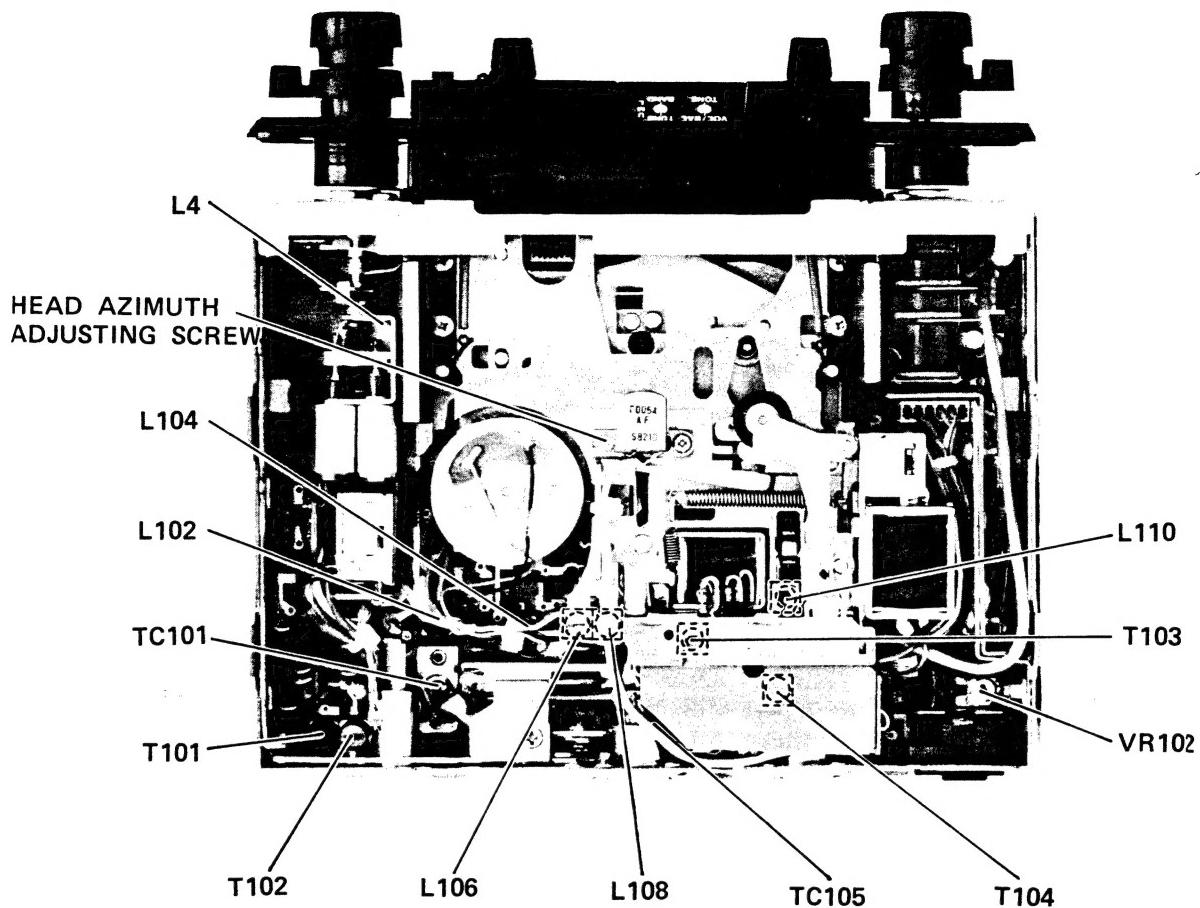


Figure 7 ALIGNMENT POINTS

ANSS (Automatic Noise Suppressor System)

SUMMARY

Electrical interferences generated by combustion engines used in motor-cars are necessary to be suppressed to make listening to FM broadcastings possible. An effective way to suppress interferences produced by its own car and those of others received via the antenna is to apply a kind of noise gating for the output signal of the FM

demodulator. Since the mentioned interferences have a frequency spectrum upto several hundreds of kHz being easily reproduced by the FM demodulator there is sufficient signal available beyond 53kHz to drive this gating circuit. Based upon these principles the ANSS has been developed.

INTRODUCTION

In the FM car radio, pulse noise received via the antenna becomes unpleasant noise that interferes with the happy FM listening, passing the circuits between the antenna and the speaker. The ANSS is a device that can automatically remove such pulse noises from the incoming signals, so only the desired signals will be obtained. Being detected at the FM detector, both the desired signal and pulse noise, caught by the antenna, are superposed each other as shown in Figure 8. Then they are applied to the ANSS circuit where only the desired signal is developed since the noisy one is removed.

The bandwidth of the ANSS, necessary for a good stereo signal, has to be about:

$$38 \text{ kHz} + 15 \text{ kHz} = 53 \text{ kHz}$$

(stereo subcarrier) (Upper side band channel)

For stereo signal reception, the arriving signals are applied to the gate circuit of the ANSS, in order to prevent the pilot signal from undergoing amplitude modulation (which causes noisy sound through the succeeding circuits), this pilot signal is first supplied to the 19 kHz trap filter, located prior to the gate circuit, where it is removed and only the audio signal can appear at the ANSS circuit then to be applied to the stereo multiplex circuit.

In addition, before being supplied to the 19kHz trap filter, a part of the stereo pilot signal is also applied to the VCO circuit, a part of the stereo multiplex circuit. Since the VCO circuit is of PLL system, if the pilot signal enter the VCO circuit, the PLL becomes completely locked so as to eliminate any possibility of noise occurrence in the stereo multiplex circuit due to the noise entered together with the pilot signal. In this way pulse noise caught by the antenna is eliminated.

Another feature of this system is that in FM stereo reception, the signal to noise ratio is improved, because

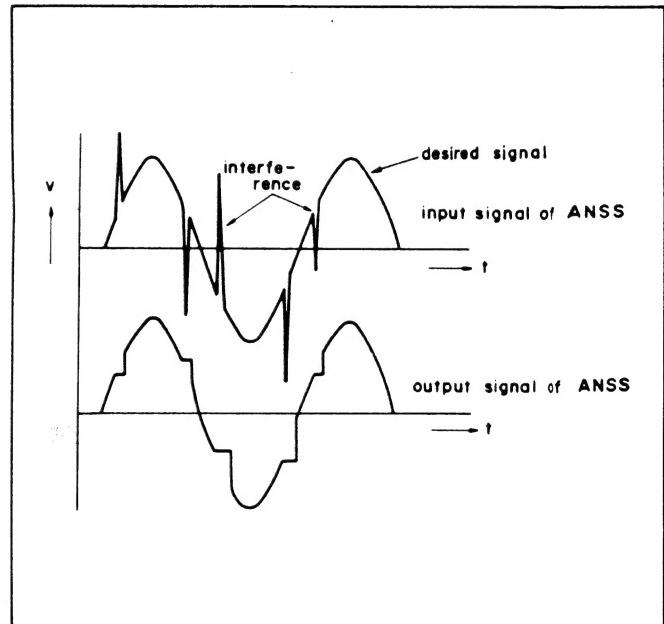


Figure 8

the stereo pilot signal has no possibility of mixing in the audio signal produced, being removed by the 19 kHz trap filter.

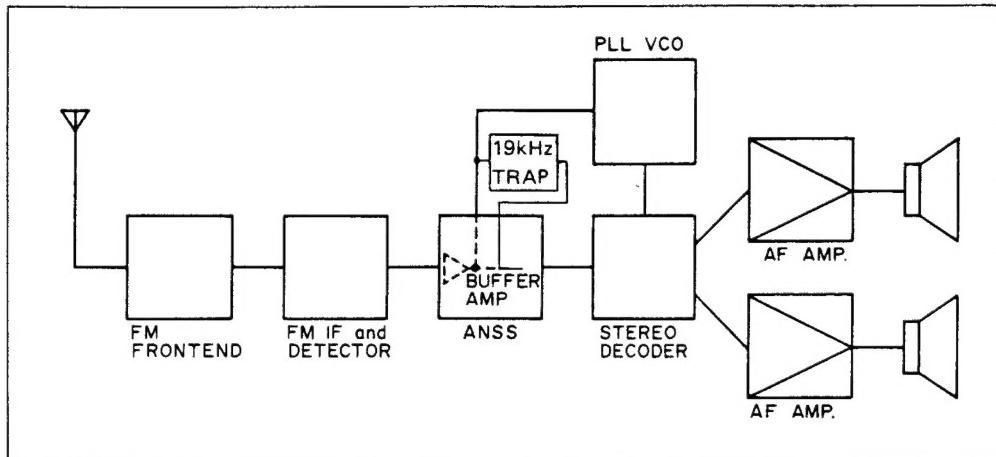


Figure 9

BLOCK DIAGRAM

The block diagram is shown in Fig. 10.

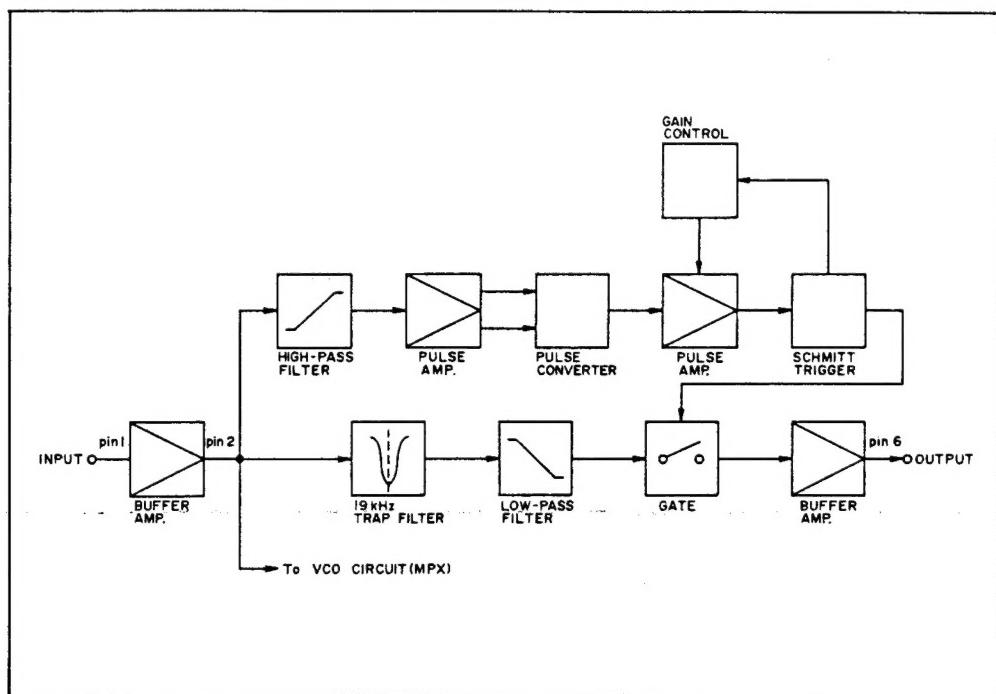


Figure 10

Explanation of the block diagram

Input signals at the pin 1, both the desired signal and pulse noise are appeared at the pin 2 via the buffer amplifier. Then, they are divided into the two, one to be applied to the high-pass filter side and another to the low-pass filter side.

In the high-pass filter, only pulse noise is picked out from the incoming signal, and this noise is amplified by the pulse amplifier. The noise thus amplified is transferred to the pulse converter where the negative pulse is converted to positive one to be supplied to the pulse amplifier where it is formed a strong signal enough to activate the Schmitt trigger.

Coming out of the Schmitt trigger, the signal is coupled to the gate circuit of the ANSS, which will be turned off. Also, the ANSS is equipped with the gain control circuit that will control the input signal of the Schmitt trigger, if a great amount of the continual pulse noises arrived, and prevent the gate circuit from turning off. Meanwhile, in the low-pass filter side, the arriving signal is first applied to the 19 kHz trap filter where the stereo pilot signal is removed, and the remaining signal is coupled to the low-pass filter. The signal coming out of the low-pass filter, which has frequencies lower than 53 kHz, is then applied to the gate circuit. In this gate circuit, pulse noise,

if being included in the input signal, will be got rid of and so only the desired signal will be developed. However, being turned off, the gate circuit has no output. To prevent this, the ANSS is equipped with such a circuit that maintains output at the level just before the gate circuit is turned off. For this reason, there will be no

secondary noise appearance caused by switching of the gate circuit. It is noted that a part of the stereo pilot signal is, without entering the 19 kHz trap filter, coupled to the VCO circuit (of the stereo multiplex circuit) to drive.

DESCRIPTION OF THE CIRCUIT

Input stage

The input stage consists of a simple emitter follower, see Fig. 11.

This stage has been added to the circuit in order to avoid an influence of the input impedance of the L.P. and H.P. filters on the output of the FM detector and reversed. To be sure that the circuit works correctly, the DC voltage at pin 1 needs to be $0.4 \times V_9 - V_{16}$ ($0.4 \times$ supply voltage).

The input impedance at 1 kHz : $|Z_i| \geq 70$ K ohms.

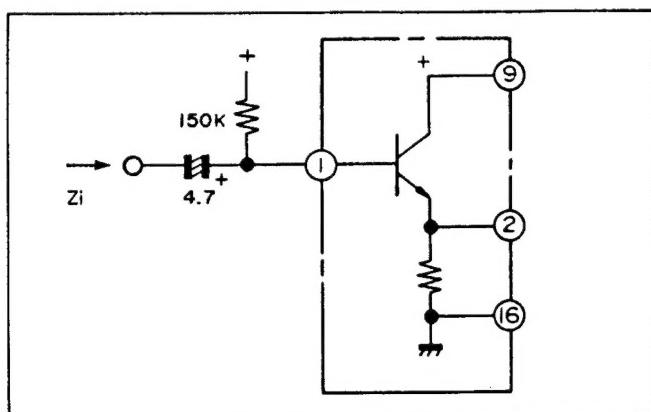


Figure 11

The low-pass filter (delay line)

To be sure of a good signal handling of the desired signal this filter has to meet next requirements.

- the delay time has to be at least 3 μ sec.
- the amplitude characteristic has to be as flat as possible in the pass-band.
- the phase behaviour has to be linear.
- the distortion of the desired information at the output must be as low as possible.

In order to meet these requirements use is made of a 4th order Butterworth filter realised by an active RC circuit. (see Fig. 12).

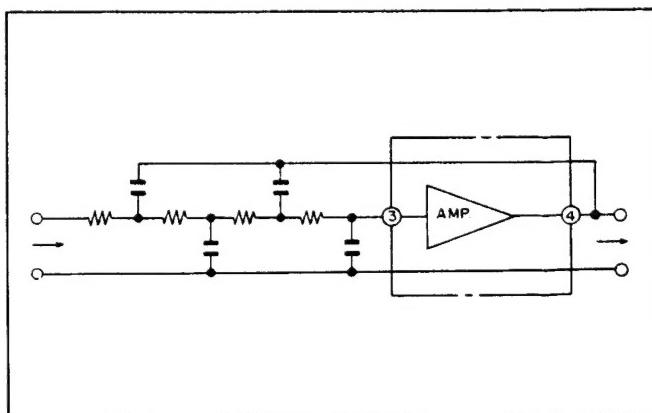


Figure 12

Gate circuit and output amplifier

The circuit is given in Fig. 13.

The point, indicated with P, is connected to the positive output of the Schmitt-trigger.

If there is a positive pulse at P then Qc becomes conducting and takes away the driving current for Qb. At the same time the base voltage of Qe will be kept constant by the RC circuit connected to pin 5.

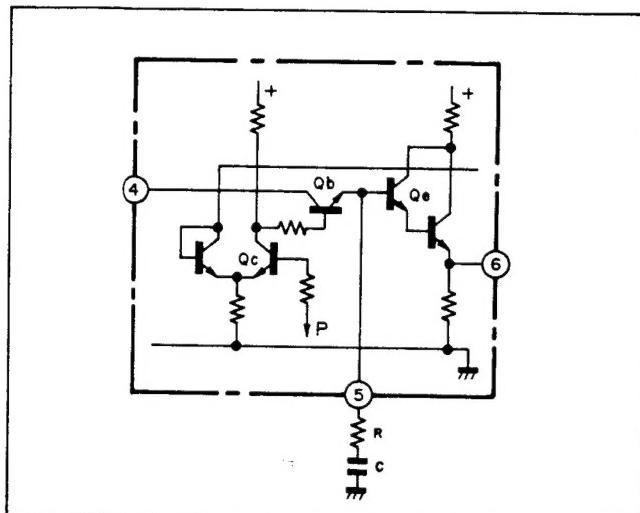


Figure 13

19 kHz filter

During suppression but without this filter the 19kHz signal will look like Fig. 14.

To be sure of no audible low-frequency component, the voltage during suppression needs to be zero. (See gap Fig. 14) However this happens only very sporadic so that filtering out of the undesired low frequency component is necessary, otherwise this low frequency component breaks through to the audio part via the MW-channel. Thus a 19kHz filter is added to the circuit.

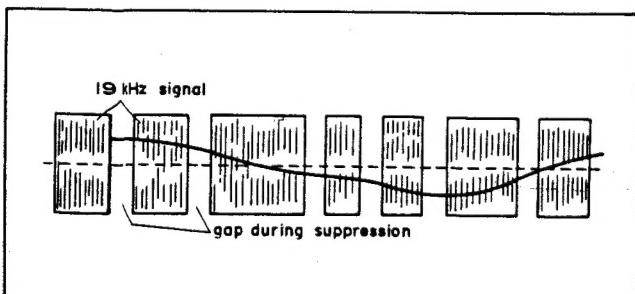


Figure 14

High pass filter

In order to detect the interferences out of the input signal a high pass filter is used.

In practice one wants to suppress as much interferences as possible in order to get a "clean" output signal. The theoretical curve of the H.P. filter has been given in Fig. 15.

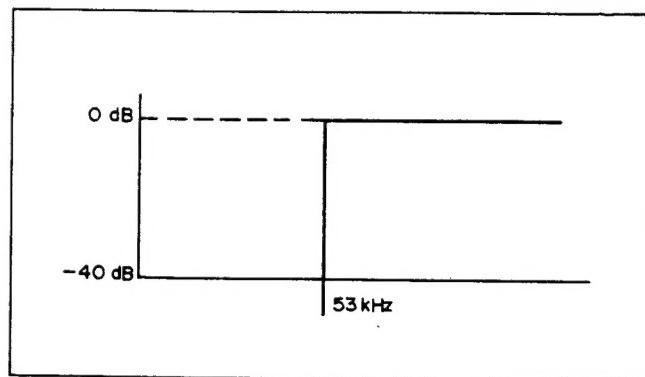


Figure 15

A practical approximation of this curve can be achieved by a 4th order Chebyshev filter at which for car radio applications -3dB can be chosen at 91kHz.

To get a steep slope an extra R and C are added circuit.

Gain control

The circuit is give in Fig. 16

To be sure of an audible signal during a too high repetition rate of the interference pulses and/or a too intensive noise it is necessary to reduce the repetition rate of the suppression

From the Schmitt-trigger the negative output pulses are fed to the integrating network connected to pin 12. If V_C'' which is $V_9 - 12$ becomes $\geq V_{BEQ8}$ then the gain of the pulse amplifier will be reduced.

In case of noise, at which normally the "interference spikes" are very close to each other, it is better to build-up the voltage across C" directly, because during one suppression time there are a lot of noise spikes.

This information for the gain control is lost if the negative output of Schmitt-trigger is used.

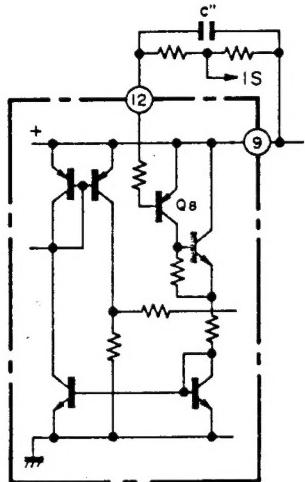


Figure 16

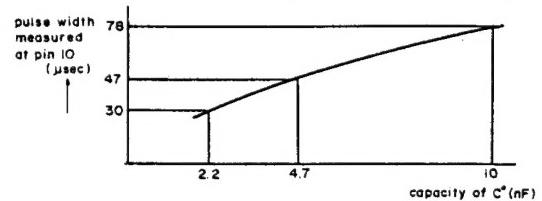


Figure 18

Schmitt-trigger

The circuit is shown in Fig. 17.

The positive output is used for driving the gate circuit while the negative output is fed to the gain control.

The pulse width of the pulses delivered by the Schmitt-trigger can be controlled by an RC network at pin 11 of Fig. 17.

The pulse width as function of the value of the C'' connected at pin 11 while the R'' is kept constant at 6.8K, is given in Fig. 18.

For measurements the pulse at the input of the ANSS (pin 1) has a pulse width of 10 μ sec., a rise time of 6 nsec. and a pulse hight of 0.1V.

To ensure proper operation of the Schmitt trigger for various $R''C''$ combinations it is advised to measure the pulse at pin 1 and pin 10.

The depicted signals should have a shape as shown in Fig. 19.

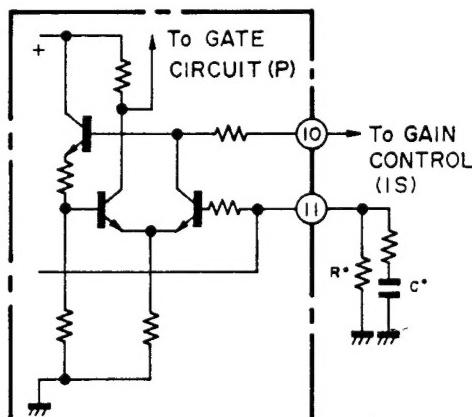


Figure 17

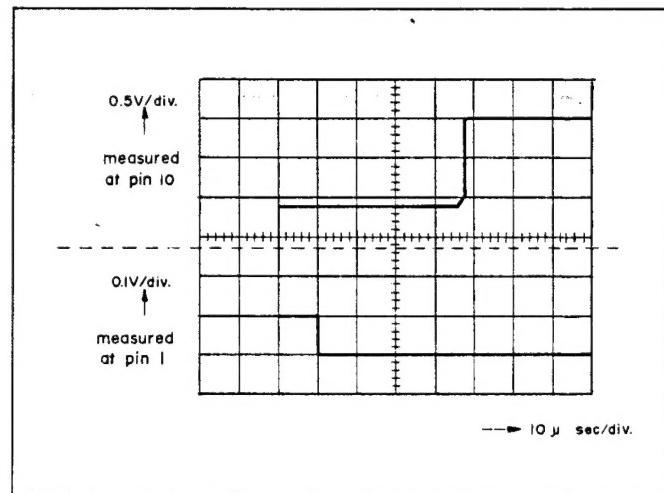


Figure 19

CIRCUIT DESCRIPTION

WHAT IS THE APSS (Auto Program Search System)

The APSS is a device which finds the beginning of programs recorded on a music tape available in the market, thereby providing automatic playing of them.

If the APSS lever is set to the position "FWD" (◀◀) or "REV" (▶▶) in playing the APSS indicator lights up, sound dies away and tape is taken up rapidly on the right-hand or left-hand reel. When a space between programs is reached the APSS lever returns to the original position automatically, which switches off the APSS indicator to put the unit in the play mode.

APSS circuit (Refer to Figures 20 and 21)

The APSS circuit is composed of integrated circuit (IC301) and plunger control circuit. The following description refers to the details of these two circuits.

1. The integrated circuit (IC301) comprises amplifier circuit, constant voltage circuit, detection circuit, rectifier circuit, comparison circuit and Schmidt circuit, and a voltage developed at its output terminal (pin no. 8) reaches high level when a signal is impressed on its input terminal (pin no. 1), while the voltage reaches low level when no signal is impressed.
2. The plunger control circuit comprises two transistors (Q302, Q303). The transistor (Q302) actuates the plunger only when output from the integrated circuit (IC301) is at low level, and the transistor (Q303) switches the plunger power supply with output from the transistor (Q302).

Behavior of APSS circuit (Refer to Figures 20 and 21)

If the unit is put in the APSS mode a signal amplified by the regenerative equalizer amplifiers Q108 thru Q110 enters the integrated circuit (IC301) at its input terminal (pin no. 1) to hold a voltage developed at its output terminal (pin no. 8) at high level (8 V), switching off the transistors (Q302, Q303). That is to say, the unit stays in the APSS mode while a signal is sent from tape because the plunger does not act meanwhile. If no signal is sent from tape a voltage developed at the output terminal (pin no. 8) of integrated circuit (IC301) reaches low level (4 V), which causes charge current to flow through the emitter and base of transistor (Q302) to the electrolytic capacitor (C305), switching on the transistor (Q302). This causes current flow to the base of transistor (Q303), which switches it on to permit current flow to the plunger, changing the mechanism area from the APSS mode to the play mode.

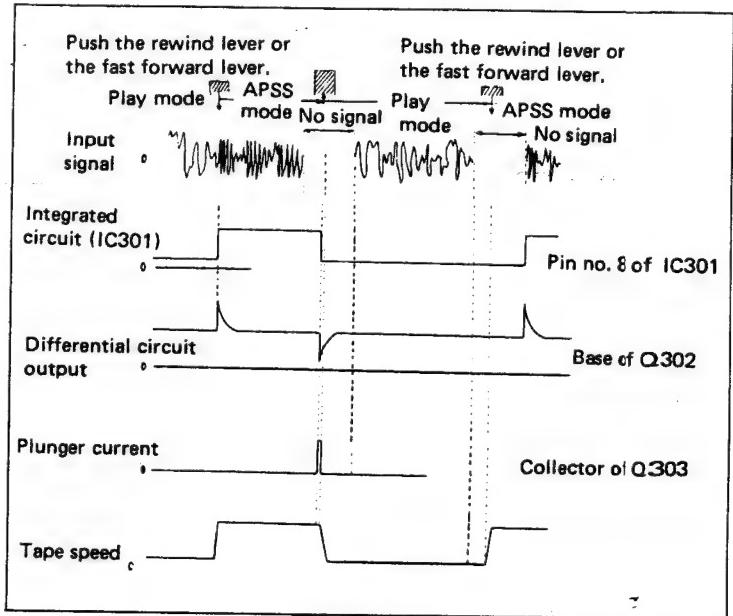


Figure 20

Block Diagram of APSS Integrated Circuit

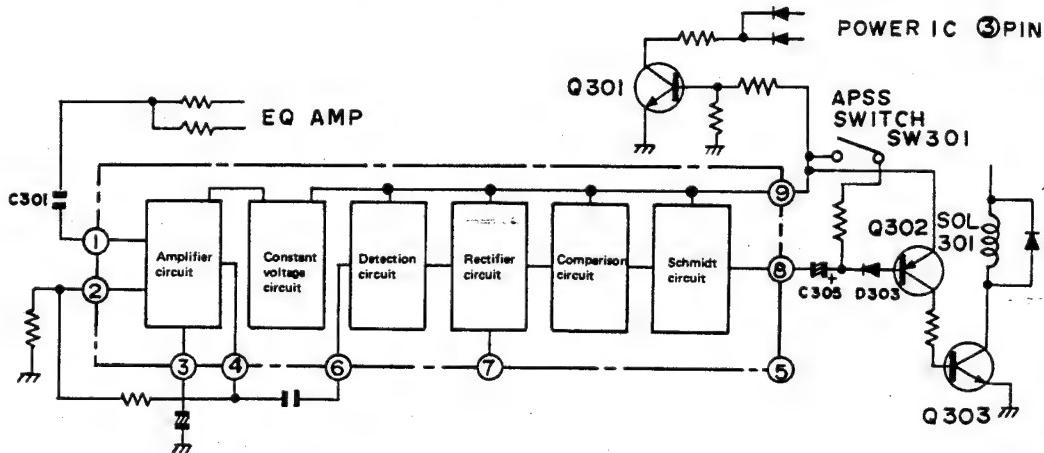


Figure 21

■ POSITIONAL ADJUSTMENT OF APSS SWITCH (SW301)

(Refer to Figure 22)

1. PLAY MODE

- (1) Set the unit in play mode.
- (2) Adjust the setting position of the APSS switch (SW301) so that the interval **(A)** of Figure 22 will be as specified.

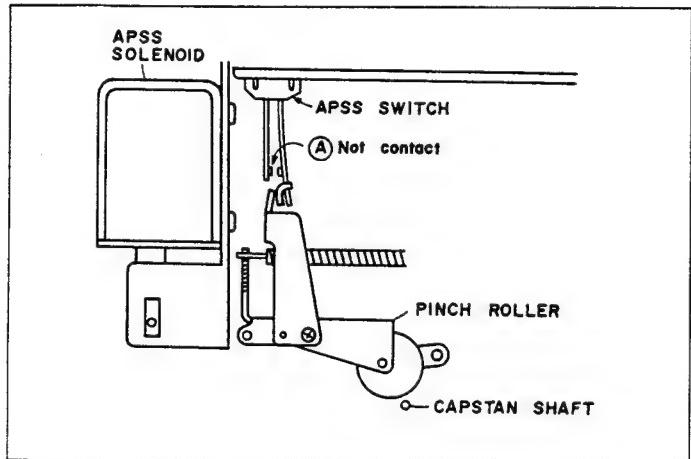


Figure 22

2. APSS MODE

- (1) Set the unit in Fast-forward APSS (or Rewind APSS) mode.
- (2) Adjust the setting position of the APSS switch (SW301) so that the interval **(B)** of Figure 23 will be as specified.

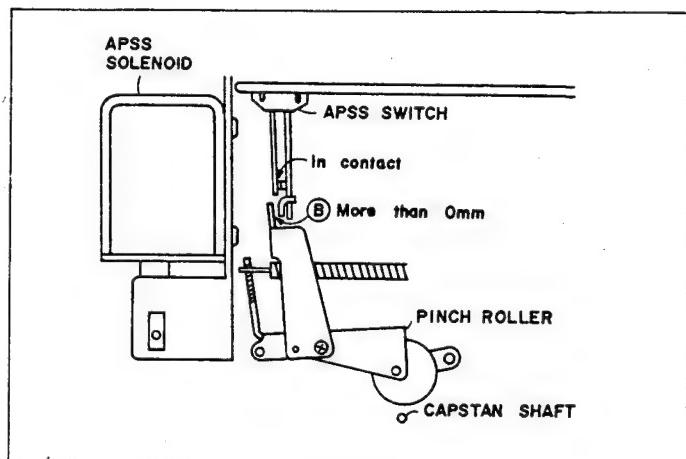


Figure 23

DIAL CORD STRINGING

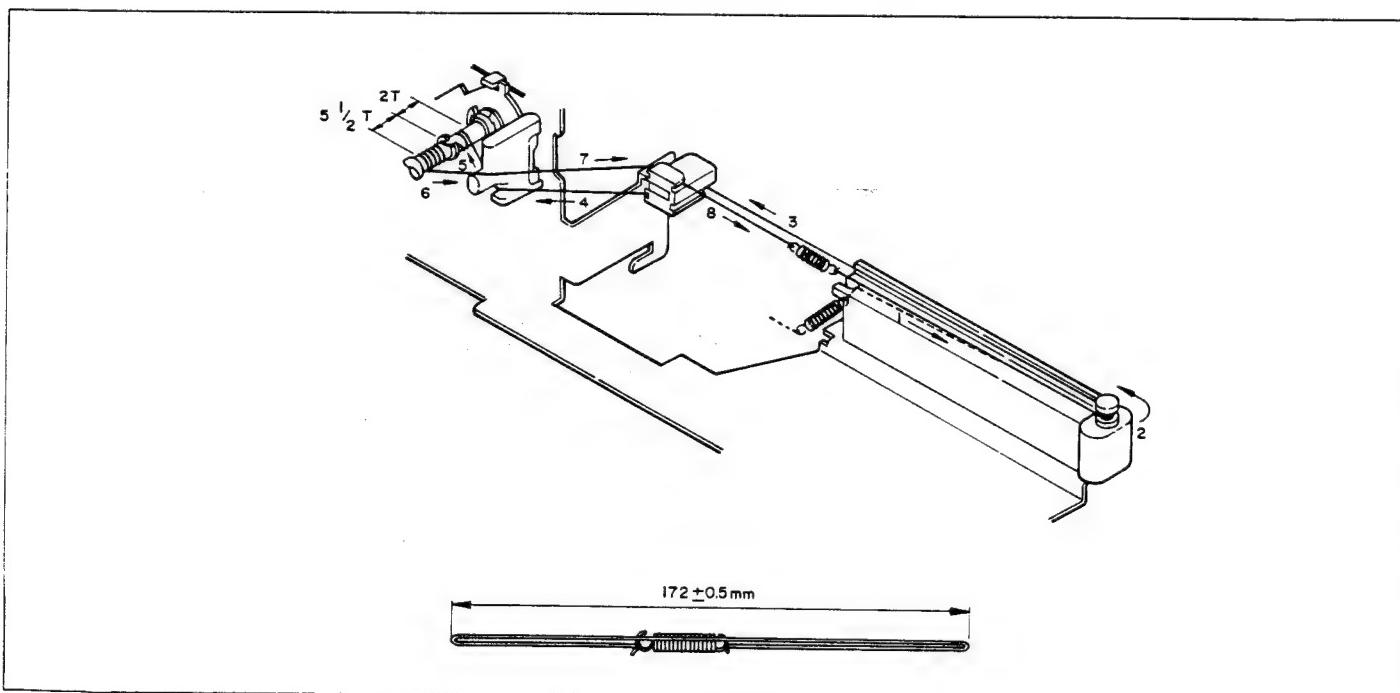


Figure 24

MECHANICAL ADJUSTMENT

FLYWHEEL THRUST CLEARANCE ADJUSTMENT (Refer to Figure 25)

Slowly tighten the screw for adjusting the flywheel thrust clearance until the thrust clearance becomes 0 (zero) and loosen the screw by 1/2 ~ 1 turn from this point. Since screw's pitch is 0.5mm, thrust clearance of 0.1 ~ 0.3mm is produced.

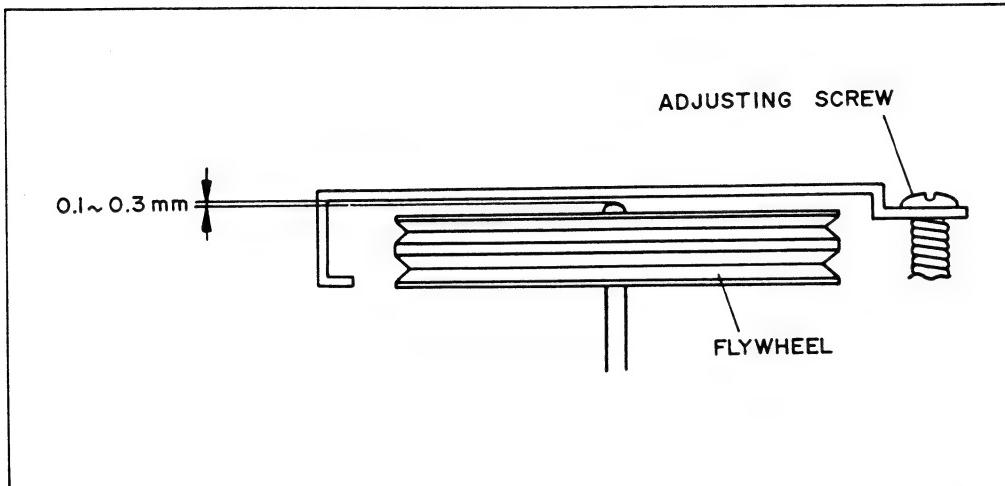


Figure 25

TIMING ADJUSTMENT OF RADIO/TAPE SELECTOR SWITCH (Refer to Figure 26)

At the moment the radio/tape selector switch turns to the tape position (and the motor starts to rotate), the gap between the pinch roller and the capstan shaft should be 0 ~ 0.2 mm. If the value is not satisfied, adjust the pushing arm by changing the setting position and/or bending.

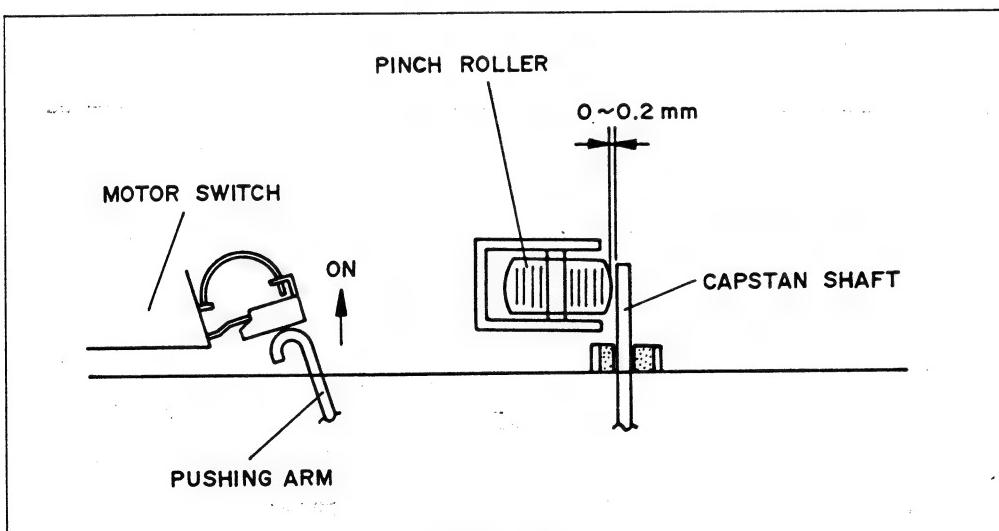


Figure 26

PINCH ROLLER PRESSURE ADJUSTMENT (Refer to Figure 27)

- With power supply turned on, push the point **(A)** with a tension gauge to make the pinch roller apart from the capstan shaft. Then, gradually release the tension gauge and read its value when the pressure roller starts to rotate.
- It is normal that the tension gauge reads 320 ~ 380g. If the above value is not satisfied, change the setting position of Pinch Roller Spring.

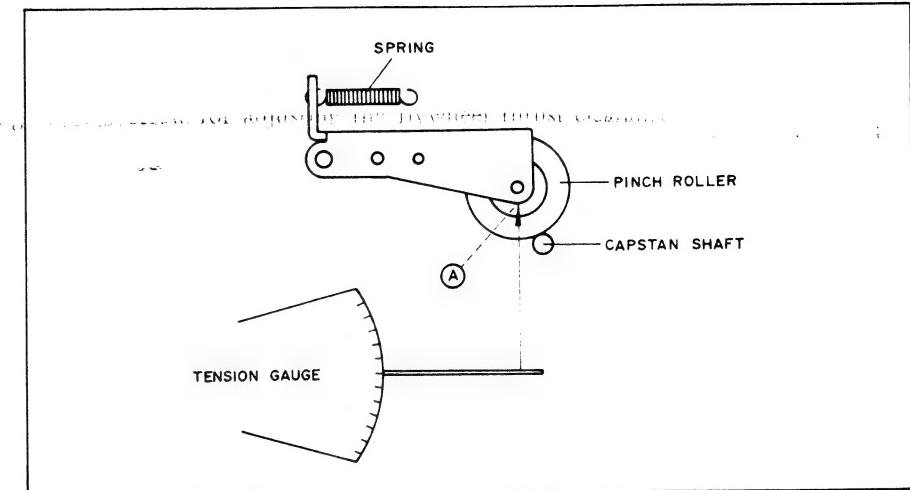


Figure 27

TORQUE CHECK (Refer to Figure 28)

- Set the torque measuring reel to the turntable (the take-up side at play or fast forward mode and the supply side at rewind mode).
- Then, rotate the reel in the same direction as for turntable and read the torque value when the pointer is stabilized.

| Mode | Torque Value |
|--------------|--------------------|
| Play | 35 - 55 gr.cm |
| Fast Forward | More than 70 gr.cm |
| Rewind | More than 70 gr.cm |

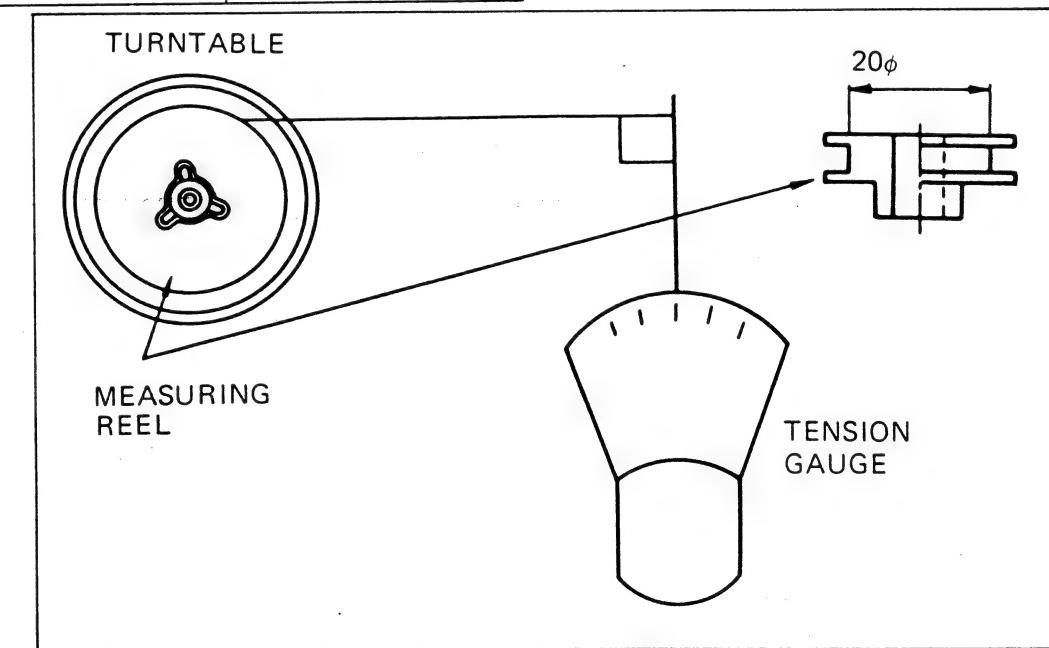
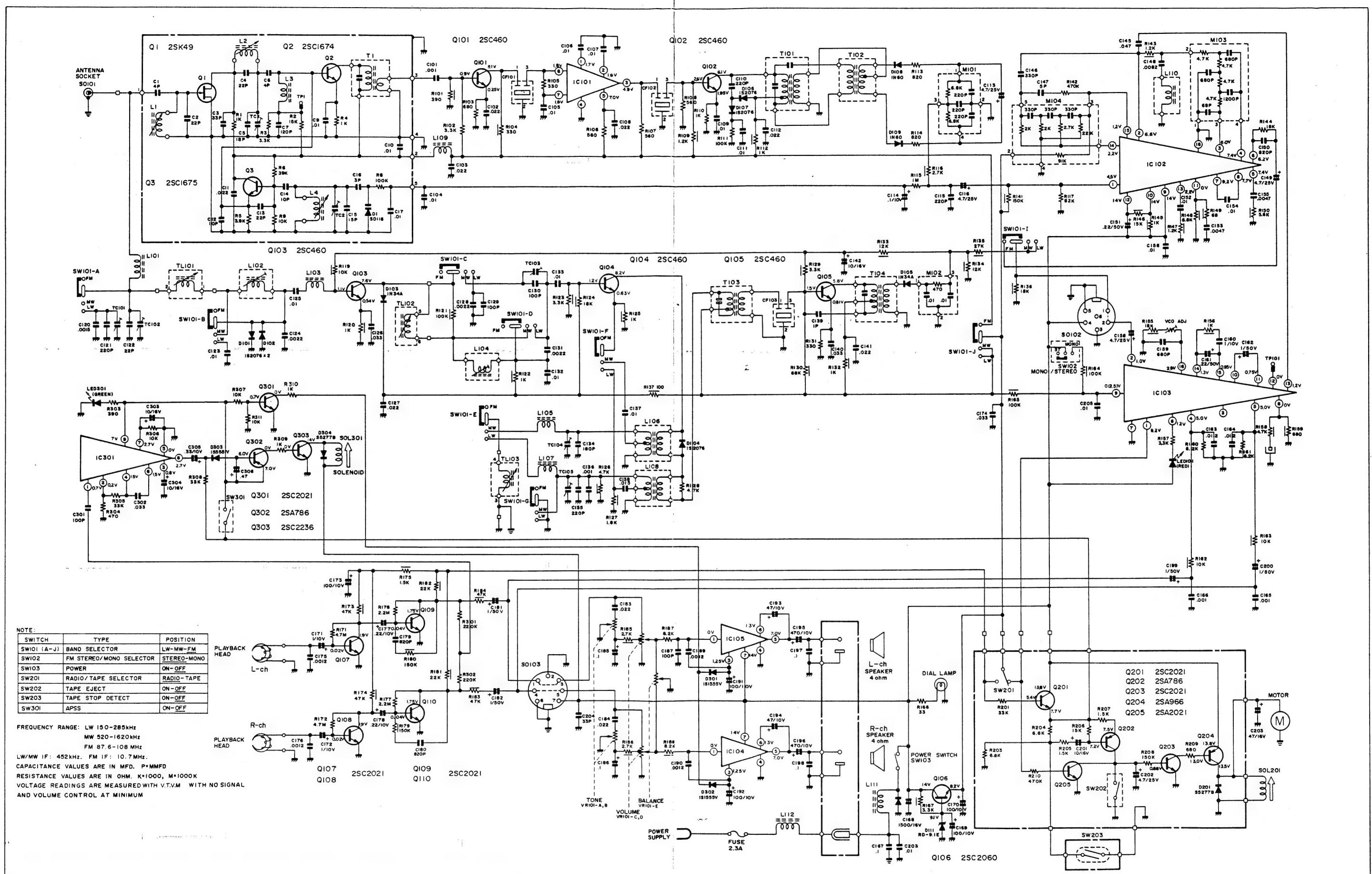


Figure 28



Specifications or wiring diagrams of this model are subject to change for the improvement without prior notice.

Figure 29 SCHEMATIC DIAGRAM (RG-5850H)

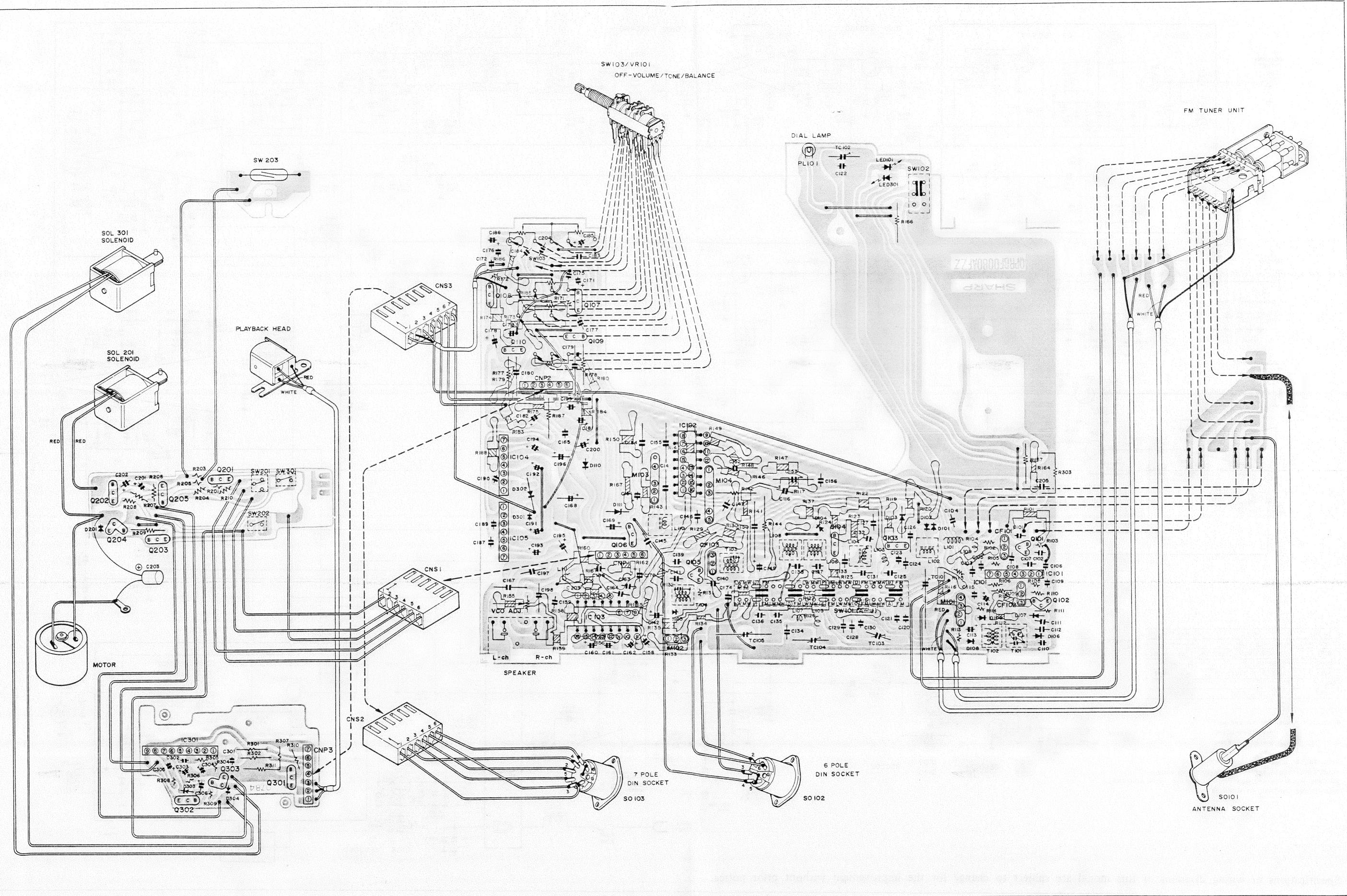
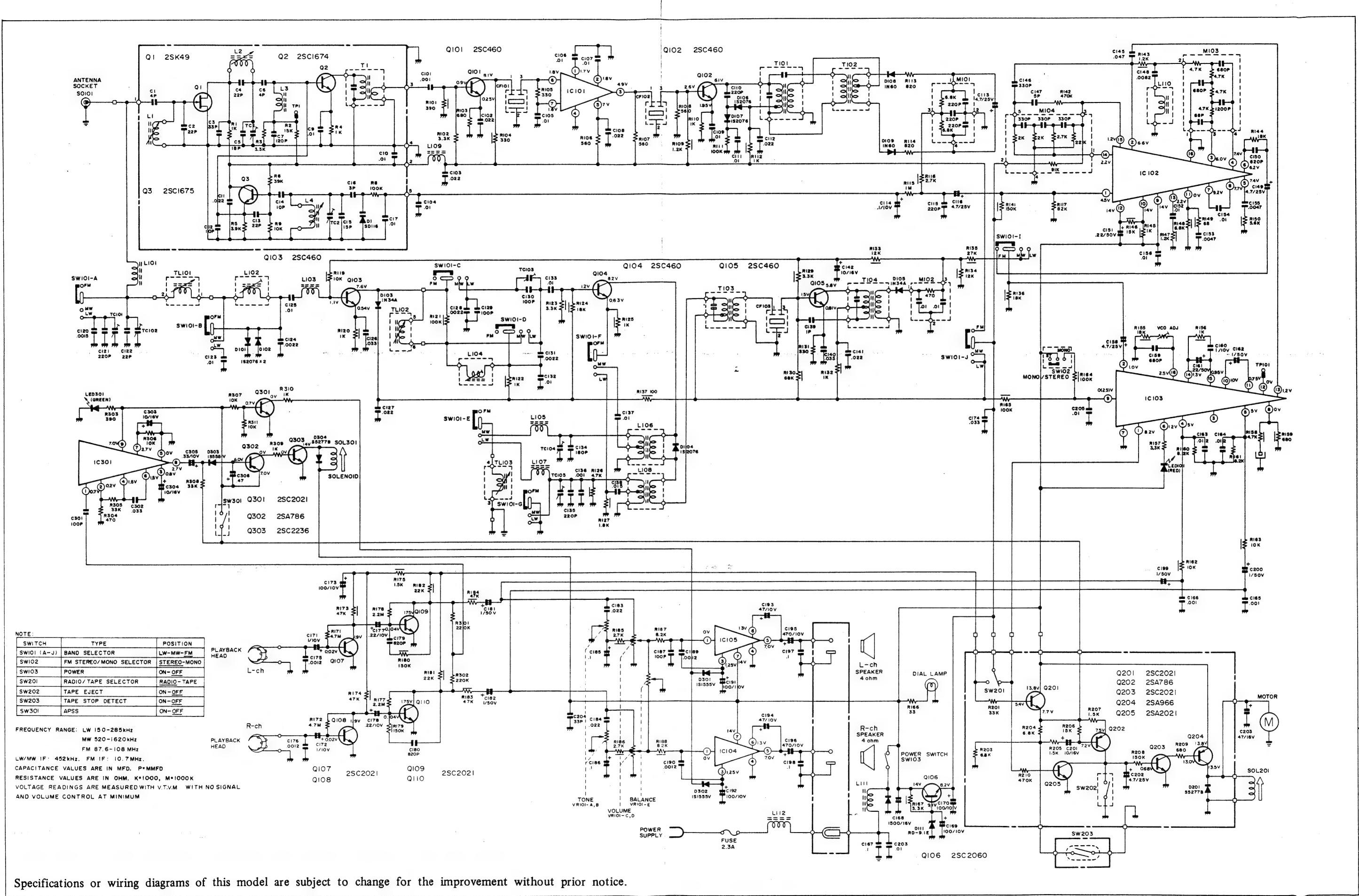


Figure 30 WIRING CONNECTIONS (RG-5850H)



Specifications or wiring diagrams of this model are subject to change for the improvement without prior notice.

Figure 31 SCHEMATIC DIAGRAM (RG-5850E)

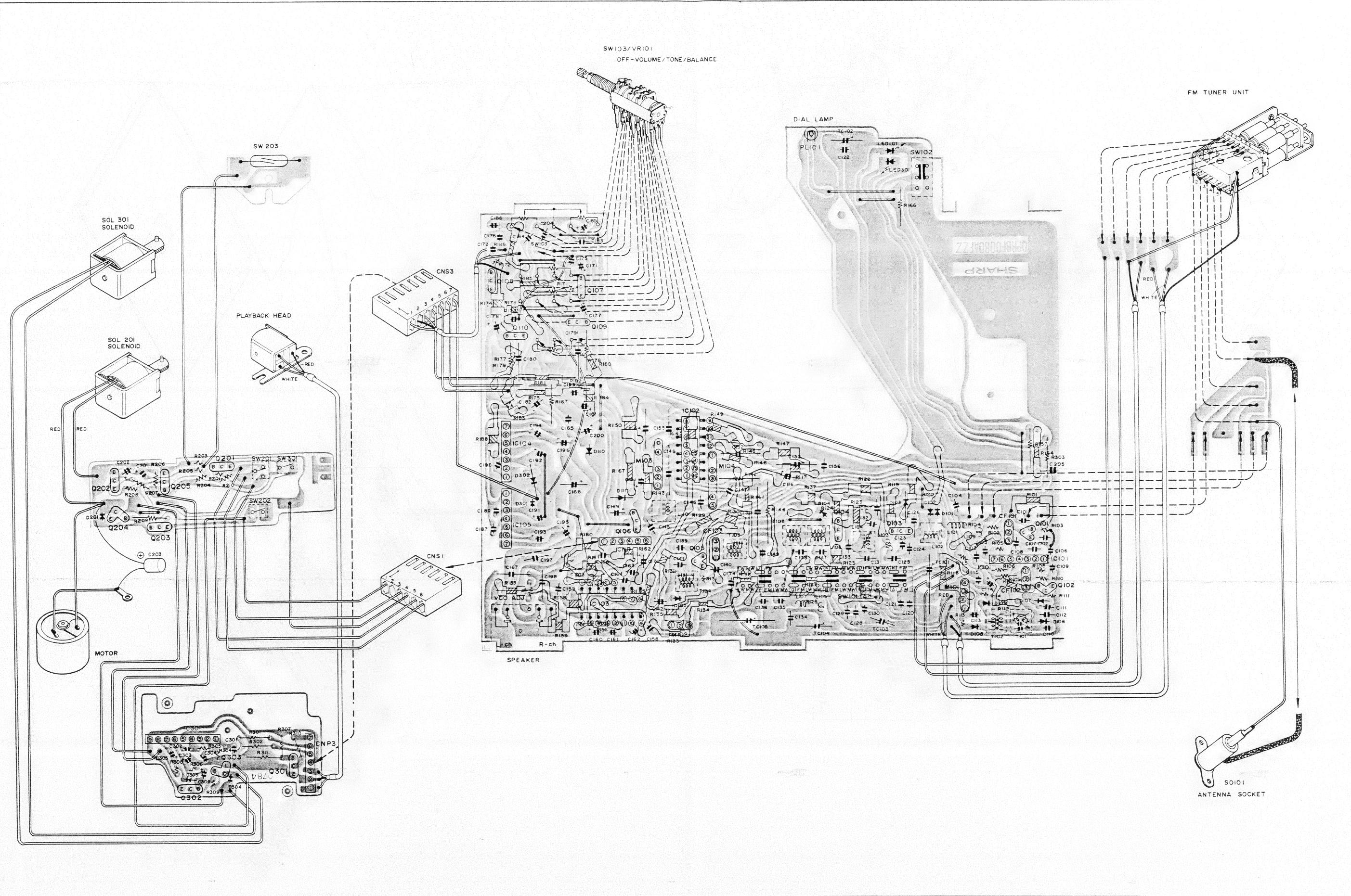


Figure 32 WIRING CONNECTIONS (RG-5850E)

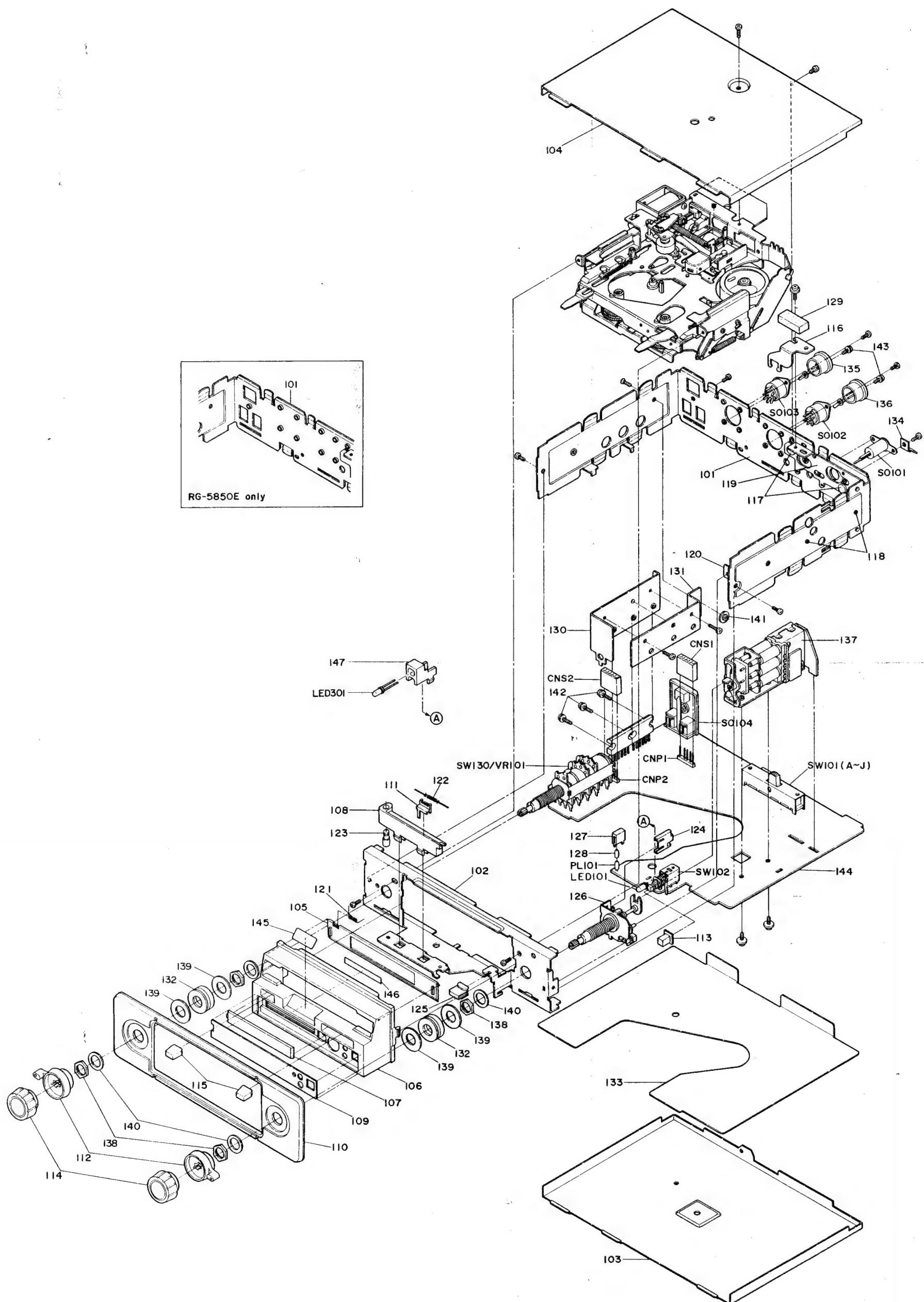


Figure 33 CABINET EXPLODED VIEW

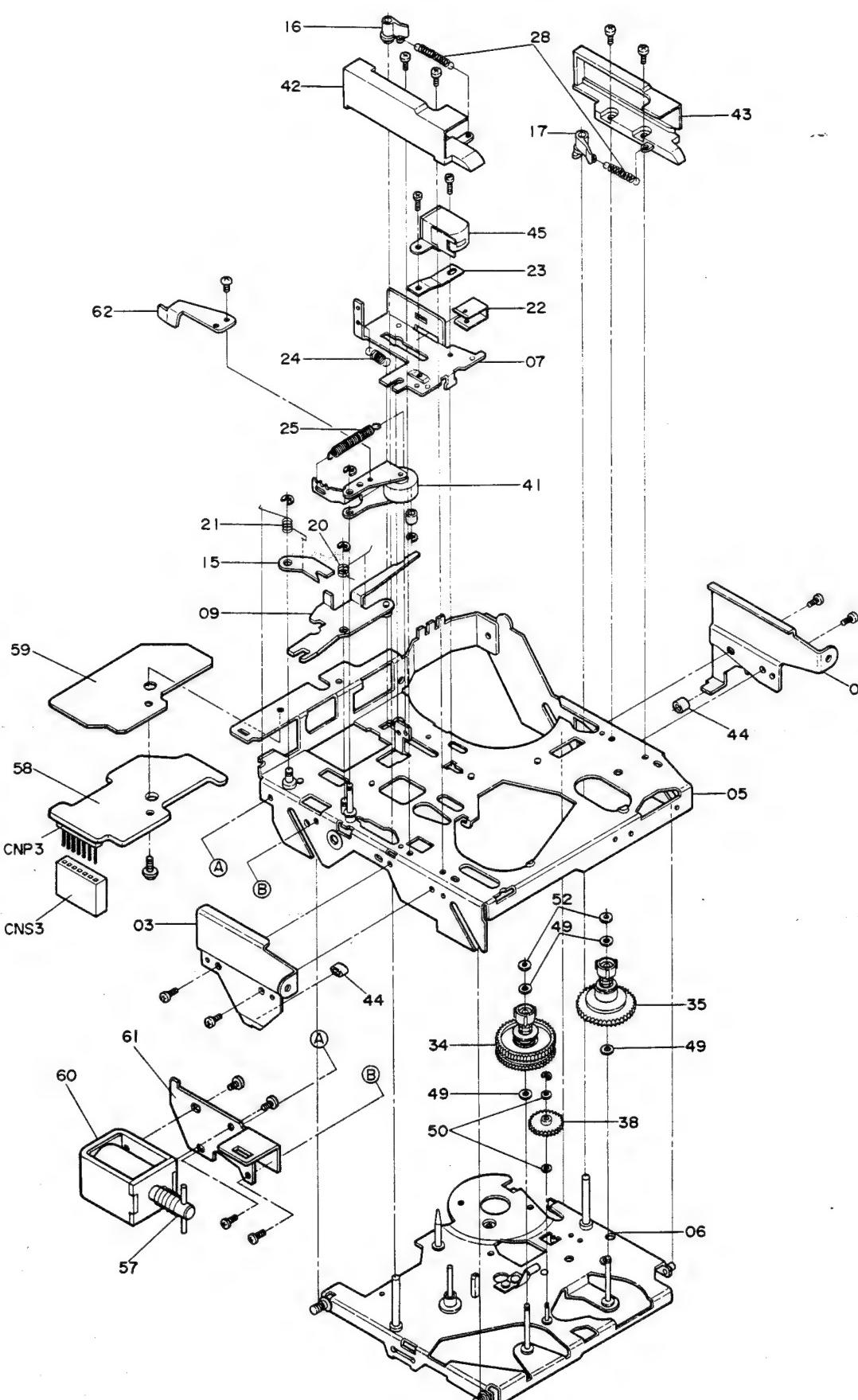


Figure 34 MECHANISM EXPLODED VIEW (UPPER SIDE)

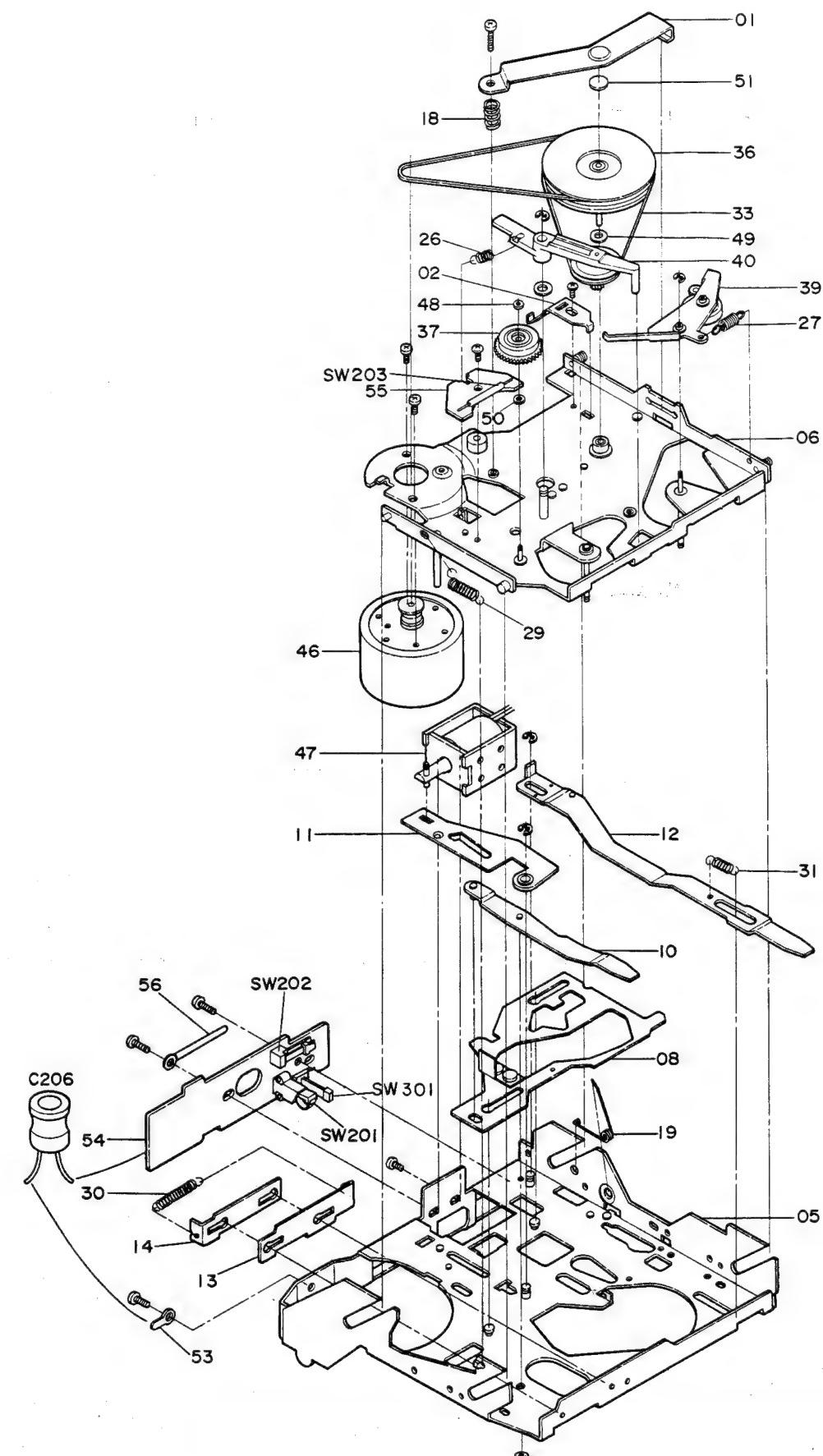


Figure 35 MECHANISM EXPLODED VIEW (LOWER SIDE)

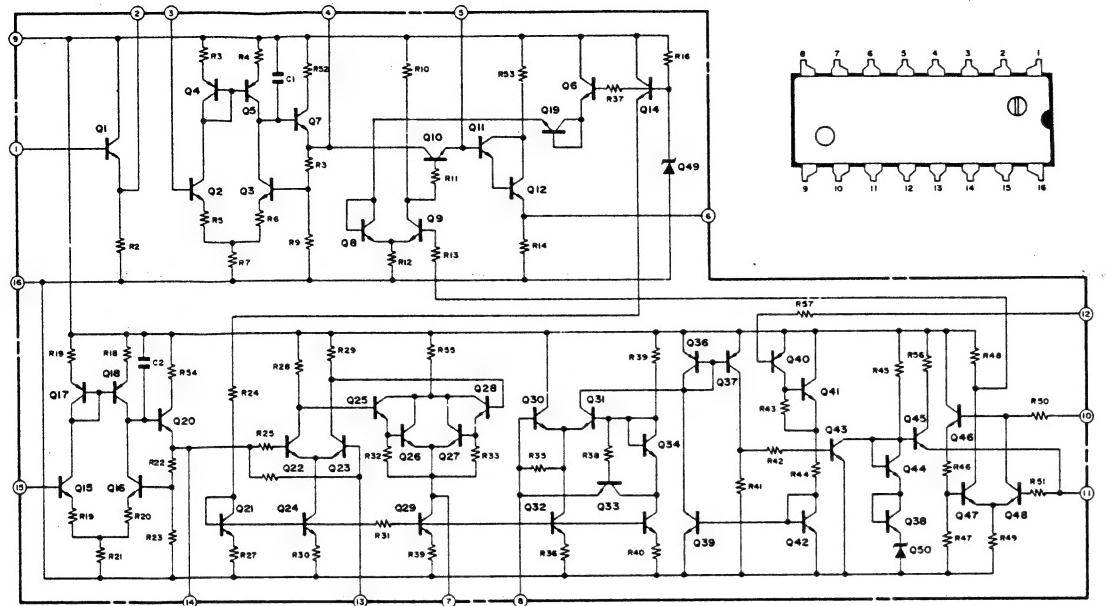


Figure 36 EQUIVALENT CIRCUIT OF IC102

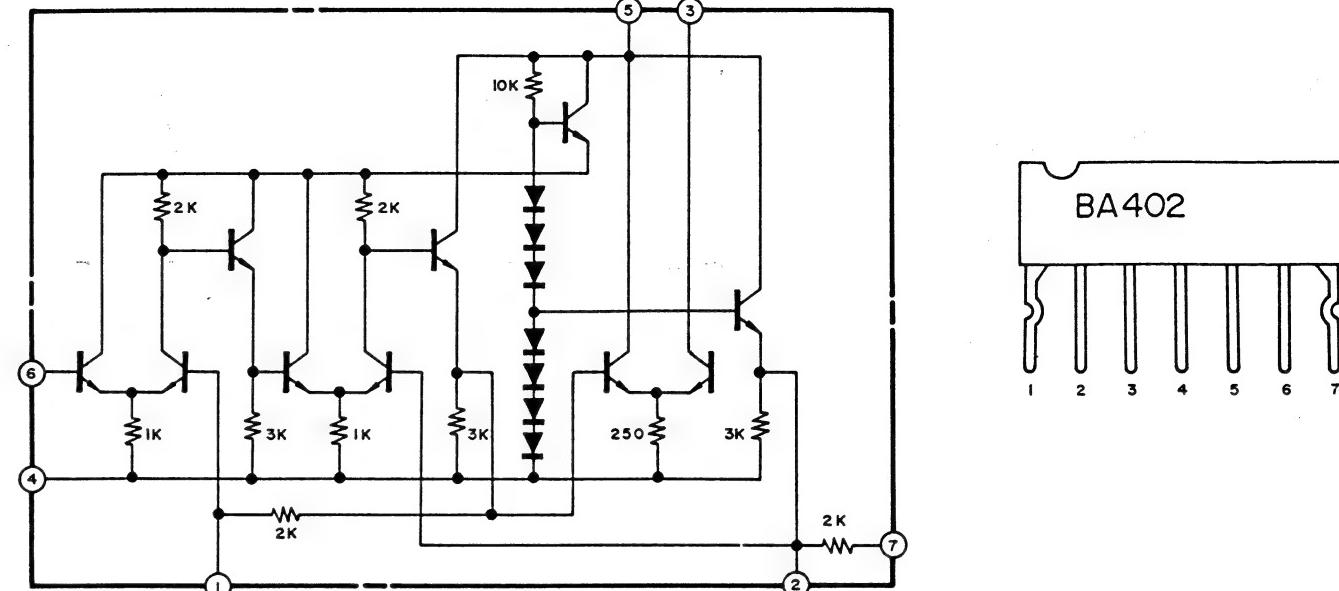


Figure 37 EQUIVALENT CIRCUIT OF IC101

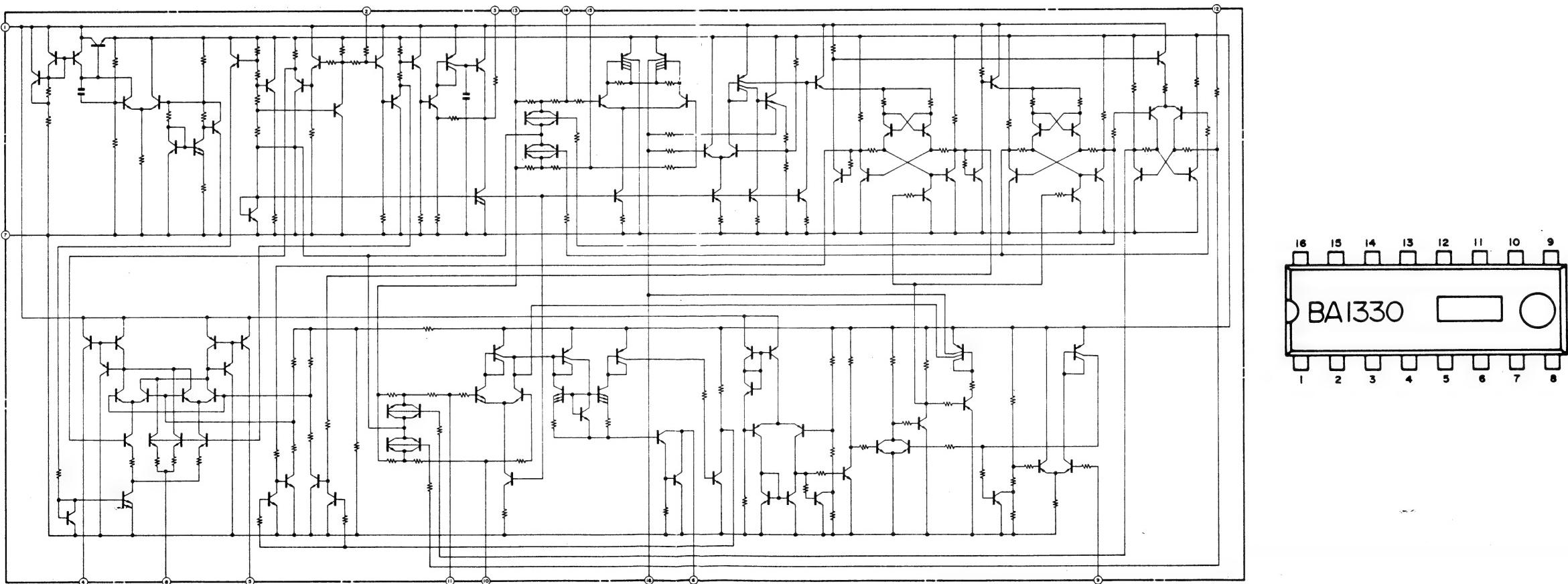
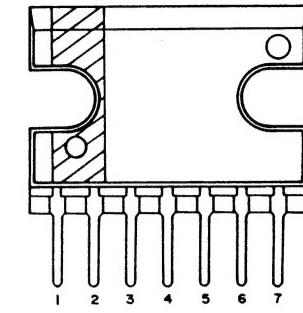
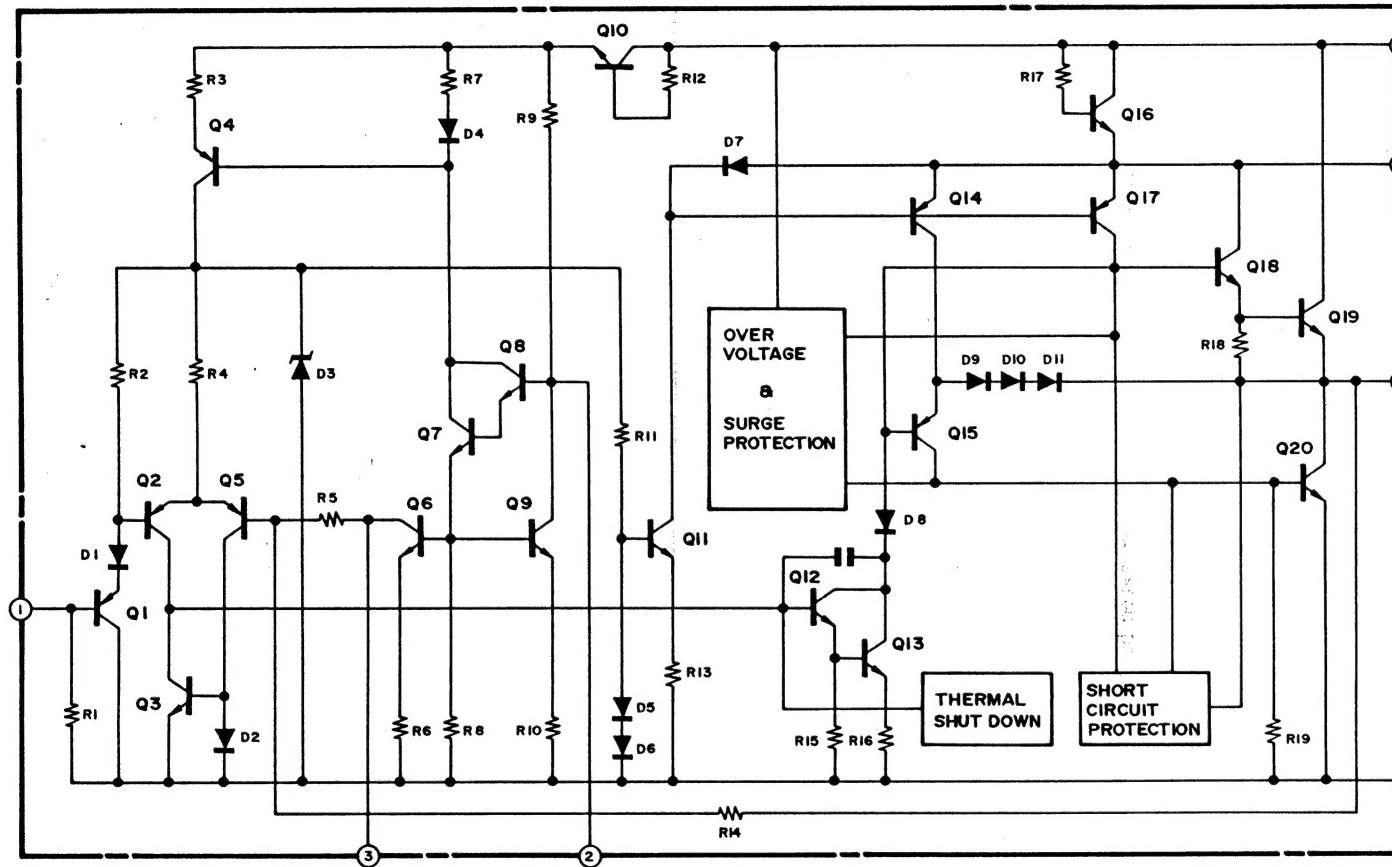
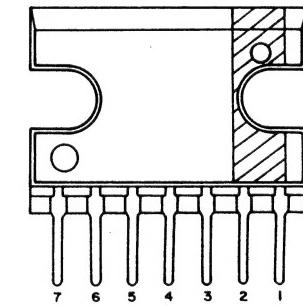


Figure 38 EQUIVALENT CIRCUIT OF IC103



RH-IXII07AFZZ



RH-IXII08AFZZ

Figure 39 EQUIVALENT CIRCUIT OF IC104 and IC105

REPLACEMENT PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

| REF. NO. | PART NO. | DESCRIPTION | CODE | REF. NO. | PART NO. | DESCRIPTION | CODE |
|----------------------------|---------------|--|------|-------------|---------------|--|------|
| INTEGRATED CIRCUITS | | | | | | | |
| IC101 | RH-IX0932AFZZ | FM IF Amp. (BA402) | AM | D303 | VHD1S2076//1 | Protector (1S2076) | AG |
| IC102 | RH-IX1110AFZZ | ANSS (HA11219) | AM | D304 | VHDS5277B//1 | Protector (1S2076) | AB |
| IC103 | RH-IX1109AFZZ | PLL FM Stereo Demodulator (BA1330) | AM | | | | |
| IC104 | RH-IX1107AFZZ | Audio Power Amp. (μPC1181H) | AN | L101 | RCILC0065AFZZ | Choke | AC |
| IC105 | RH-IX1108AFZZ | Audio Power Amp. (μPC1182H) | AN | L102 | RCILA0301AFZZ | LW Antenna | AB |
| IC301 | VHIIIR3108//1 | APSS | ** | L103 | RCILC0051AFZZ | Noise Filter | AC |
| | | | | L104 | RCILA0301AFZZ | LW RF | AB |
| | | | | L105 | RCILC0065AFZZ | MW Oscillation | AC |
| | | | | L106 | RCILB0322AFZZ | MW Oscillation | AD |
| | | | | L107 | RCILC0060AFZZ | LW Oscillation | AC |
| | | | | L108 | RCILB0307AFZZ | LW Oscillation | AD |
| | | | | L109 | RCILC0051AFZZ | Power Filter | AC |
| TRANSISTORS | | | | | | | |
| Q101 | VS2SC460-B/-1 | FM IF Amp. (2SC460B) | AC | L110 | RCILZ0061AFZZ | 19kHz Trap | AE |
| Q102 | VS2SC460-B/-1 | FM IF Amp. (2SC460B) | AC | L111 | RCILF0067AFZZ | Power Filter | AD |
| Q103 | VS2SC460-B/-1 | AM RF Amp. (2SC460B) | AC | | | | |
| Q104 | VS2SC460-B/-1 | AM Converter (2SC460B) | AC | | | | |
| Q105 | VS2SC460-C/-1 | AM IF Amp. (2SC460C) | AC | | | | |
| Q106 | VS2SC2060R/-1 | Voltage Regulator (2SC2060R) | AD | | | | |
| Q107 | VS2SC2021LNS1 | Tape Pre Amp. (2SC2021LNS) | AC | T101 | RCILI0185AFZZ | FM Discriminator | AE |
| Q108 | VS2SC2021LNS1 | Tape Pre Amp. (2SC2021LNS) | AC | T102 | RCILI0182AFZZ | FM Discriminator | AE |
| Q109 | VS2SC2021E21F | Tape Pre Amp. (2SC2021E2) | AB | T103 | RCILI0238AFZZ | AM IF | AD |
| Q110 | VS2SC2021E21F | Tape Pre Amp. (2SC2021E2) | AB | T104 | RCILI0170AFZZ | AM IF | AD |
| Q201 | VS2SC2021E11F | Solenoid Control (2SC2021E1) | AB | | | | |
| Q202 | VS2SA786-R/-1 | Solenoid Control (2SC786R) | AC | | | | |
| Q203 | VS2SC2021E11F | Solenoid Control (2SC2021E1) | AB | | | | |
| Q204 | VS2SA966-O/-1 | Solenoid Drive (2SA966OO) | ** | | | | |
| Q205 | VS2SC2021E11F | Solenoid Control (2SC2021E1) | AB | CF101 | RFILF0009AFZZ | Ceramic, 10.7MHz, FM IF | AE |
| Q301 | VS2SC2021E11F | Muting (2SC2021E1) | AB | CF102 | RFILF0009AFZZ | Ceramic, 10.7MHz, FM IF | AE |
| Q302 | VS2SA786-R/-1 | APSS Solenoid Control (2SA786R) | AC | CF103 | RFILA0059AFZZ | Ceramic, 452kHz, AM IF | AD |
| Q303 | VS2SC2236O/-1 | APSS Solenoid Drive (2SC236) | ** | | | | |
| DIODES | | | | | | | |
| D101 | VHD1S2076//1 | Protector (1S2076) | AG | M101 | RMPTA0105AFZZ | 6.8K ohm x 2 + 220PF x 3 | AC |
| D102 | VHD1S2076//1 | Protector (1S2076) | AG | M102 | RMPTA0108AFZZ | 470 ohm + .01MFD x 2 | AC |
| D103 | VHD1N34A///1 | AM Overload (1N34A) | AC | M103 | RMPTA0107AFZZ | 4.7K ohm x 4 + 68PF + 680PF x 2 + 1200PF | AG |
| D104 | VHD1S2076//1 | Stabilizer (1S2076) | AG | M104 | RMPTA0106AFZZ | 2K ohm x 2 + 2.7K ohm + 22K ohm + 91K ohm + 330PF x 3 | AF |
| D105 | VHD1N34A///1 | AM Detector (1N34A) | AC | | | | |
| D106 | VHD1S2076//1 | Noise Limiter (1S2076) | AG | | | | |
| D107 | VHD1S2076//1 | Noise Limiter (1S2076) | AG | | | | |
| D108 | VHD1N60///-3 | FM Detector (1N60P) | AH | | | | |
| D109 | VHD1N60///-3 | FM Detector (1N60P) | AH | | | | |
| D110 | VHDS5277B//1 | Protector (S5277B) | AB | VR101 | RVR-B0164AFZZ | Volume/Tone/Balance Control and Power Switch | AU |
| D111 | VHERD9.1ED/-1 | Zener (Voltage Regulator) (RD9.1E) | AC | SW103 | | | |
| D201 | VHDS5277B//1 | Protector (S5277B) | AB | VR102 | RVR-M0003SGZZ | 5K ohm (B), VCO Frequency Adjustment | AC |
| LED101 | VHPGL-5PR5/1F | FM Stereo Indicator (GL-5PR5) | AD | TC101 | RTO-A1004AFZZ | Trimmer, LW Antenna | AH |
| LED301 | VHPGL-5PG5/1F | APSS Indicator (RG-5PG5) | ** | TC102 | RTO-A1053AFZZ | Trimmer, MW Antenna | AD |
| D301 | VHD1S2076//1 | Protector, Reverse Current (1S2076) | AG | TC103 | RTO-A1052AFZZ | Trimmer, MW RF | AD |
| D302 | VHD1S2076//1 | Protector, Reverse Current (1S2076) | AG | TC104 | RTO-A1052AFZZ | Trimmer, MW Oscillation | AD |
| | | | | TC105 | RTO-A1004AFZZ | Trimmer, LW Oscillation | AH |
| PACKAGED CIRCUIT | | | | | | | |
| CONTROLS | | | | | | | |
| | | | | | | | |

** Price will be quoted upon receipt of order.

PARTS LIST

| REF. NO. | PART NO. | DESCRIPTION | CODE | REF. NO. | PART NO. | DESCRIPTION | CODE |
|-------------------|---------------|-------------------------------------|------|-------------|---------------|--------------------------------------|------|
| CAPACITORS | | | | | | | |
| C101 | VCQYKU1HM102M | .001MFD, 50V, ±20%, Mylar | AB | C154 | VCTYAT1EX103N | .01MFD, 25V, ±30%, Ceramic | AA |
| C102 | VCTYPU1EX223K | .022MFD, 25V, ±10%, Ceramic | AB | C155 | VCTYAT1EX472N | .0047MFD, 25V, ±30%, Ceramic | AA |
| C103 | VCTYPU1EX223M | .022MFD, 25V, ±20%, Ceramic | AA | C156 | VCTYPU1EX103M | .01MFD, 25V, ±20%, Ceramic | AA |
| C104 | VCTYPU1EX103M | .01MFD, 25V, ±20%, Ceramic | AA | C158 | VCEAAU1EW475A | 4.7MFD, 25V, +75 -10%, Electrolytic | AB |
| C105 | VCTYPU1EX103M | .01MFD, 25V, ±20%, Ceramic | AA | C159 | VCQSMU1HS681J | 680PF, 50V, ±5%, Styrol | AB |
| C106 | VCTYPU1EX103M | .01MFD, 25V, ±20%, Ceramic | AA | C160 | VCAAKU1AA105M | 1MFD, 10V, ±20%, Electrolytic | AD |
| C107 | VCTYPU1EX103M | .01MFD, 25V, ±20%, Ceramic | AA | C161 | VCAAAU1AB224M | .22MFD, 10V, ±20%, Electrolytic | AC |
| C108 | VCTYPU1EX223K | .022MFD, 25V, ±10%, Ceramic | AB | C162 | VCEAAU1HW105A | 1MFD, 50V, +75 -10%, Electrolytic | AB |
| C109 | VCQYKU1HM103M | .01MFD, 50V, ±20%, Mylar | AB | C163 | VCTYPU1EX123K | .012MFD, 25V, ±10%, Ceramic | AB |
| C110 | VCRYPU1HB221J | 220PF, 50V, ±5%, Ceramic | AB | C164 | VCTYPU1EX123K | .012MFD, 25V, ±10%, Ceramic | AB |
| C111 | VCTYPU1EX103M | .01MFD, 25V, ±20%, Ceramic | AA | C165 | VCTYPU1EX102K | .001MFD, 25V, ±10%, Ceramic | AA |
| C112 | VCTYPU1EX223K | .022MFD, 25V, ±10%, Ceramic | AB | C166 | VCTYPU1EX102K | .001MFD, 25V, ±10%, Ceramic | AA |
| C113 | VCEAAU1EW475A | 4.7MFD, 25V, +75 -10%, Electrolytic | AB | C167 | VCKZPU1HF104Z | .1MFD, 50V, +80 -20%, Ceramic | AC |
| C114 | VCAAAU1AB104M | .1MFD, 10V, ±20%, Electrolytic | AC | C168 | RC-EZ1075AFZZ | 1500MFD, 16V, +50 -10%, Electrolytic | AE |
| C115 | VCRYPU1HB221J | 220PF, 50V, ±5%, Ceramic | AB | C169 | RC-EZS107AF1A | 100MFD, 10V, +30 -10%, Electrolytic | AB |
| C116 | VCEAAU1EW475A | 4.5MFD, 25V, +75 -10%, Electrolytic | AB | C170 | RC-EZS107AF1A | 100MFD, 10V, +30 -10%, Electrolytic | AB |
| C120 | VCQYKU1HM152J | .0015MFD, 50V, ±5%, Mylar | AC | C171 | VCAAKU1AA105M | 1MFD, 10V, ±20%, Electrolytic | AD |
| C121 | VCRYPU1HB221J | 220PF, 50V, ±5%, Ceramic | AB | C172 | VCAAAU1AB105M | 1MFD, 10V, ±20%, Electrolytic | AD |
| C122 | VCCSPU1HL220J | 22PF, 50V, ±5%, Ceramic | AA | C173 | RC-EZS107AF1A | 100MFD, 10V, +30 -10%, Electrolytic | AB |
| C123 | VCTYPU1EX103M | .01MFD, 25V, ±20%, Ceramic | AA | C174 | VCTYPU1EX333M | .033MFD, 25V, ±20%, Ceramic | AB |
| C124 | VCQYKU1HM222M | .0022MFD, 50V, ±20%, Mylar | AB | C175 | VCTYPU1EX122K | .0012MFD, 25V, ±10%, Ceramic | AA |
| C125 | VCQYKU1HM103M | .01MFD, 50V, ±20%, Mylar | AB | C176 | VCTYPU1EX122K | .0012MFD, 25V, ±10%, Ceramic | AA |
| C126 | VCTYPU1EX333M | .033MFD, 25V, ±20%, Ceramic | AB | C177 | VCAAKU1AA224M | .22MFD, 10V, ±20%, Electrolytic | AC |
| C127 | VCTYPU1EX223M | .022MFD, 25V, ±20%, Ceramic | AA | C178 | VCAAKU1AA224M | .22MFD, 10V, ±20%, Electrolytic | AC |
| C128 | VCQYKU1HM222J | .0022MFD, 50V, ±5%, Mylar | AB | C179 | VCKYAT1HB821K | 820PF, 50V, ±10%, Ceramic | AA |
| C129 | VCRYPU1HB101J | 100PF, 50V, ±5%, Ceramic | AA | C180 | VCKYAT1HB821K | 820PF, 50V, ±10%, Ceramic | AA |
| C130 | VCRYPU1HB101J | 100PF, 50V, ±5%, Ceramic | AA | C181 | VCAAKU1AA105M | 1MFD, 10V, ±20%, Electrolytic | AD |
| C131 | VCTYPU1EX222M | .0022MFD, 25V, ±20%, Ceramic | AA | C182 | VCAAKU1AA105M | 1MFD, 10V, ±20%, Electrolytic | AD |
| C132 | VCTYPU1EX103M | .01MFD, 25V, ±20%, Ceramic | AA | C183 | VCTYPU1EX223K | .022MFD, 25V, ±10%, Ceramic | AB |
| C133 | VCQYKU1HM103M | .01MFD, 50V, ±20%, Mylar | AB | C184 | VCTYPU1EX223K | .022MFD, 25V, ±10%, Ceramic | AB |
| C134 | VCCTPU1HH181J | 180PF (TH), 50V, ±5%, Ceramic | AB | C185 | VCAAAU1AB104M | .1MFD, 10V, ±20%, Electrolytic | AC |
| C135 | VCRYPU1HB221J | 220PF, 50V, ±5%, Ceramic | AB | C186 | VCAAAU1AB104M | .1MFD, 10V, ±20%, Electrolytic | AC |
| C136 | VCQYKU1HM102K | .001MFD, 50V, ±10%, Mylar | AB | C187 | VCRYPU1HB101J | 100PF, 50V, ±5%, Ceramic | AA |
| C137 | VCQYKU1HM103M | .01MFD, 50V, ±20%, Mylar | AB | C188 | VCTYPU1EX122K | .0012MFD, 25V, ±10%, Ceramic | AA |
| C138 | VCQYKU1HM153M | .015MFD, 50V, ±20%, Mylar | AB | C189 | VCTYPU1EX122K | .0012MFD, 25V, ±10%, Ceramic | AA |
| C139 | VCCSPU1HL1R0C | 1PF, 50V, ±25PF, Ceramic | AA | C190 | VCTYPU1EX122K | .0012MFD, 25V, ±10%, Ceramic | AA |
| C140 | VCQYKU1HM333M | .033MFD, 50V, ±20%, Mylar | AB | C191 | RC-EZS107AF1A | 100MFD, 10V, +30 -10%, Electrolytic | AB |
| C141 | VCTYPU1EX223K | .022MFD, 25V, ±10%, Ceramic | AB | C192 | RC-EZS107AF1A | 100MFD, 10V, +30 -10%, Electrolytic | AB |
| C142 | VCEAAU1CW106Y | 10MFD, 16V, +50 -10%, Electrolytic | AB | C193 | VCEAAU1AW476Y | 47MFD, 10V, +50 -10%, Electrolytic | AB |
| C145 | VCTYPU1EX473M | .047MFD, 25V, ±20%, Ceramic | AB | C194 | VCEAAU1AW476Y | 47MFD, 10V, +50 -10%, Electrolytic | AB |
| C146 | VCRYPU1HB331J | 330PF, 50V, ±5%, Ceramic | AB | C195 | RC-EZS477AF1C | 470MFD, 16V, +30 -10%, Electrolytic | AC |
| C147 | VCCSPU1HL5R0C | 5PF, 50V, ±25PF, Ceramic | AA | C196 | RC-EZS477AF1C | 470MFD, 16V, +30 -10%, Electrolytic | AC |
| C148 | VCTYAT1EX822N | .0082MFD, 25V, ±30%, Ceramic | AA | | | | |
| C149 | VCEAAU1EW475A | 4.7MFD, 25V, +75 -10%, Electrolytic | AB | | | | |
| C150 | VCKYAT1HB821K | 820PF, 50V, ±10%, Ceramic | AA | | | | |
| C151 | VCEALU1HC224M | .22MFD, 50V, ±20%, Ceramic | AB | | | | |
| C152 | VCTYAT1EX103N | .01MFD, 25V, ±30%, Ceramic | AA | | | | |
| C153 | VCTYAT1EX472N | .0047MFD, 25V, ±30%, Ceramic | AA | | | | |

PARTS LIST

| REF. NO. | PART NO. | DESCRIPTION | CODE | REF. NO. | PART NO. | DESCRIPTION | CODE | REF. NO. | PART NO. | DESCRIPTION | CODE |
|--|---------------|------------------------------------|------|-------------|---------------|---------------------------------|------|-------------|---------------|-------------------------------------|------|
| MECHANICAL PARTS | | | | | | | | | | | |
| C197 | VCQYKU1HM104M | .1MFD, 50V, ±20%, Mylar | AC | R303 | VRD-ST2EE391J | 390 ohm | AA | C198 | VCQYKU1HM104M | .1MFD, 50V, ±20%, Mylar | AC |
| C199 | VCEAAU1HW105A | 1MFD, 50V, +75 -10%, Electrolytic | AB | R304 | VRD-SU2BY471J | 470 ohm, 1/8W, ±5%, Carbon | AA | C200 | VCEAAU1HW105A | 1MFD, 50V, +75 -10%, Electrolytic | AB |
| C201 | VCEAAU1CW106Y | 10MFD, 16V, +50 -10%, Electrolytic | AB | R305 | VRD-SU2BY333J | 33K ohm, 1/8W, ±5%, Carbon | AA | C202 | VCEAAU1EW475A | 4.7MFD, 25V, +75 -10%, Electrolytic | AB |
| C203 | RC-EZS476AF1C | 47MFD, 16V, +30 -10%, Electrolytic | AB | C204 | VCCSPU1HL330J | 33PF, 50V, ±5%, Ceramic | AA | C205 | VCTYPU1EX103M | .01MFD, 25V, ±20%, Ceramic | AA |
| C301 | VCCSPU1HL101J | 100PF, 50V, ±5%, Ceramic | ** | C302 | VCTYPU1EX333K | .033MFD, 25V, ±10%, Ceramic | ** | C303 | VCEALU1CW106M | 10MFD, 16V, ±20%, Electrolytic | AB |
| C304 | VCEAAU1CW106Y | 10MFD, 16V, +50 -10%, Electrolytic | AB | C305 | VCAAAU1AB334M | .33MFD, 10V, ±20%, Electrolytic | AC | C306 | VCAAKU1AA474M | .47MFD, 10V, ±20%, Electrolytic | AC |
| RESISTORS | | | | | | | | | | | |
| (Unless otherwise specified resistors are 1/4W, ±5%, Carbon type.) | | | | | | | | | | | |
| R102 | VRD-SU2BY332J | 3.3K ohm, 1/8W, ±5%, Carbon | AA | R11 | MLEVF0820AFZZ | Lever, Fast Forward/Rewind | AA | R103 | VRD-SU2BY681J | 680 ohm, 1/8W, ±5%, Carbon | AA |
| R105 | VRD-SU2BY331J | 330 ohm, 1/8W, ±5%, Carbon | AA | R12 | MLEVF0821AFZZ | Lever, Play Lock | AA | R106 | VRD-SU2BY561J | 560 ohm, 1/8W, ±5%, Carbon | AA |
| R107 | VRD-SU2BY561J | 560 ohm, 1/8W, ±5%, Carbon | AA | R13 | MLEVF0822AFZZ | Lever, Eject | AA | R108 | VRD-SU2BY561J | 560 ohm, 1/8W, ±5%, Carbon | AA |
| R110 | VRD-SU2BY102J | 1K ohm, 1/8W, ±5%, Carbon | AA | R14 | MLEVF0823AFZZ | Lever, Fast Forward Return | AB | R111 | VRD-SU2BY104J | 100K ohm, 1/8W, ±5%, Carbon | AA |
| R113 | VRD-SU2BY821J | 820 ohm, 1/8W, ±5%, Carbon | AA | R15 | MLEVF0824AFFW | Lever, Rewind Return | AB | R114 | VRD-SU2BY821J | 820 ohm, 1/8W, ±5%, Carbon | AA |
| R115 | VRD-ST2EE105J | 1 Meg ohm | AA | R16 | MLEVF0825AFZZ | Lever, Eject Prevent | AA | R131 | VRD-SU2BY331J | 330 ohm, 1/8W, ±5%, Carbon | AA |
| R142 | VRD-ST2EE474J | | | | | | | | | | |

PARTS LIST

| REF. NO. | PART NO. | DESCRIPTION | CODE | REF. NO. | PART NO. | DESCRIPTION | CODE |
|----------|---------------|---|------|----------|---------------|---|------|
| 44 | PGUMM0111AF00 | Cushion Rubber | AB | 135 | QPLGD0401AFZZ | Shorting Plug (RG-5850H Only) | AC |
| 45 | RHEDF0054AFZZ | Head, Playback | AR | 136 | QPLGD0402AFZZ | Shorting Plug (RG-5850H Only) | AC |
| 46 | RMOTM0080AFZZ | Motor | AV | 137 | RTUNC0124AFZZ | Tuner Unit | BA |
| 47 | RPLU-0076AFZZ | Solenoid | AL | 138 | LX-NZ0058AFFD | Nut, φ9 | AA |
| 48 | LX-WZ5012AGZZ | Washer | AA | 139 | PSPAF0052AFFW | Spacer, Metal | AA |
| 49 | LX-WZ5018AGZZ | Washer | AA | 140 | XWHSD92-05140 | Washer, φ9.2 | AA |
| 50 | LX-WZ5020AGZZ | Washer | AA | 141 | LX-NZ0008SGFD | Nut, φ3 | AA |
| 51 | LX-WZ9057AFZZ | Spacer, Flywheel | AA | 142 | LX-HZ0001SGFD | Screw with Washer | ** |
| 52 | LX-WZ9058AFZZ | Washer, Lock | AA | 143 | LX-HZ0051AFFD | Screw with Washer | ** |
| 53 | QHWS-3206AGFN | Lug | AA | 144 | QPRBF0080AFZZ | Printed Wiring Board (Printed Resistors) | ** |
| 54 | QPWBF0785AFZZ | Printed Wiring Board, Mechanism Control | — | 145 | TLABZ0125AFZZ | Label (RG-5850H Only) | ** |
| 55 | QPWBF0756AFZZ | Printed Wiring Board, Lead Switch | — | 146 | PREFL0066AFZZ | Reflection Paper | ** |
| 56 | LHLDW3056AFZZ | Wire Holder | AA | 147 | LHLDP1054AF00 | LED Holder | ** |
| 57 | MSPRC0170AFFJ | Spring, APSS Solenoid | ** | | LANGT0071AFFW | Suspension Metal | AB |
| 58 | QPWBF0784AFZZ | Printed Wiring Board APSS | ** | | LANGZ0003AFFW | Bracket, Mounting | AB |
| 59 | PZETF0136AFZZ | Insulator | ** | | LHLDW1075AFZZ | Nylon Band | AA |
| 60 | RPLU-0078AFZZ | APSS Solenoid | ** | | LX-BZ0223AFFD | Screw (For Transport Protection) | ** |
| 61 | LANGT0723AFFW | Solenoid Angle | ** | | LX-BZ0236AFFE | Bolt with Spring and Flat Washers, φ5 x 14 mm | AA |

MISCELLANEOUS

| | | | | | | | |
|-----|---------------|--|----|-------|---------------|---|------|
| 101 | GCABA3476AFFW | Cabinet, Rear (RG-5850H) | AH | | XNESD50-45000 | Nut, φ5 | AA |
| | GCAB-3055AFFW | Cabinet, Rear (RG-5850E) | ** | | XWHSD50-05000 | Washer, φ5 | AA |
| 102 | GCABB3476AFFW | Cabinet, Front | AE | CNP1 | QCNCM0503SGZZ | Connector, 5 Pin | AD |
| 103 | GCABC3476AFFW | Cabinet, Bottom | AE | CNP2 | QCNCM217FAFZZ | Connector, 6 Pin (RG-5850H Only) | AC |
| 104 | GCABD3476AFFW | Cabinet, Top | AE | | | | |
| 105 | GFTAC1086AFSA | Cassette Door | ** | CNP3 | QCNCM218GAFZZ | Connecotr, 7 Pin | ** |
| 106 | GWAKP1073AFSA | Nose Piece | AF | CNS1 | QCNW-0503SGZZ | Wiring Wires with Connector (5 Pin) | AD |
| 107 | HDALP0391AFSA | Dial Scale | AD | | | | |
| 108 | HDAP-0174AF00 | Dial Back Plate | AC | CNS2 | Not Available | Wiring Wires with Connector (6 Pin) (Part of SO103) | N.A. |
| 109 | HINDP0131AFSA | Indication Plate | ** | | | | |
| 110 | HPNLC1242AFSA | Panel | AG | CNS3 | QCNW-0378AFZZ | Wiring Wire with Connector (7 Pin) | ** |
| 111 | HSSND0242AFSA | Dial Pointer | AB | | | | |
| 112 | JKNBK0167AFSA | Knob, Tone Control and Band Selector | AD | | QCNW-0321AFZZ | Speaker Cord, 5 m (RG-5850H) | AP |
| 113 | JKNBM0262AFSA | Knob, FM Stereo/Mono Selector | AB | | QCNW-0342AFZZ | Speaker Cord, 3.5 m (RG-5850E) | AN |
| 114 | JKNBN0363AFSA | Knob, Power Switch/Volume/Balance and Tuning Control | AD | | QCNW-0322AFZZ | Earth Cord | AC |
| | | | | | QFS-A232BAFNH | Fuse | AC |
| 115 | JKNBP0066AFSA | Knob, Eject and FF/REW | AC | | QFSHJ1058AFZZ | Fuse Holder with Coil | AM |
| 116 | LANGQ0606AFFW | Arm, Band Selector Switch | AB | SW101 | QSW-S0180AFZZ | Switch, Band Selector | AK |
| 117 | LBOSH0058AFFW | Boss, Band Selector Lever (A) | AB | SW102 | QSW-P0174AFZZ | Switch, FM Stereo/Mono Selector | AF |
| 118 | LBOSH0059AFFW | Boss, Band Selector Lever (B) | AB | | | | |
| 119 | MLEVF0831AFFW | Band Selector Lever (A) | AC | SW201 | QSW-F0126AFZZ | Switch, Radio/Tape Selector | AE |
| 120 | MLEVF0832AFFW | Band Selector Lever (B) | AC | SW202 | QSW-F0127AFZZ | Switch, Tape Eject | AD |
| 121 | MSPRD0180AFFJ | Spring, Cassette Door | AA | SW203 | QSW-L0054AFZZ | Switch, Tape Stop Detect | AE |
| 122 | MSPRT0321AFFJ | Spring, Dial Cord | AA | SW301 | QSW-F0128AFZZ | Switch, APSS | ** |
| 123 | NPLYC0103AFFW | Dial Cord Guide | AB | PL101 | RLMPM0069AFZZ | Lamp, Dial | AD |
| 124 | NPLYD0050AF00 | Dial Cord Guide | AB | SO101 | QS0CZ0015AFZZ | Antenna Socket | AD |
| 125 | NPLYD0051AF00 | Dial Cord Guide | AB | SO102 | QCNW-0324AFZZ | DIN Socket (6 Pole)(RG-5850H) | AG |
| 126 | NSFTZ0065AFZZ | Shaft, Tuning Control/Band Selector | AK | SO103 | QCNW-0323AFZZ | DIN Socket (7 Pole) with Connector (RG-5850H only) | AH |
| 127 | PCOVU3111AFFW | Lamp Cover | AB | SO104 | QSOCD0272AFZZ | Speaker Socket | AG |
| 128 | PCOVZ8055AFZZ | Lamp Cover, Green | AA | | SPAКА0520AFZZ | Packing Add. | ** |
| 129 | PCUSS0096AFZZ | Cushion | AA | | SPAKC1182AFZZ | Packing Case (RG-5850H) | ** |
| 130 | PRDAR0167AFFW | Heat Sink | AA | | TINSZ0133AFZZ | Operation Manual (RG-5850H) | ** |
| 131 | PRDAR0175AFFW | Heat Sink | AD | | SPAКХ0189AFZZ | Packing Add. | ** |
| 132 | PSPAZ0074AFZZ | Spacer, Plastic | AD | | SSAKH0097AFZZ | Polyethylene Bag, Set | ** |
| 133 | PZETF0133AFZZ | Insulation Plate | AC | | TTAG-0066AFZZ | Tag, ANSS | ** |
| 134 | QLUGL0150AFZZ | Ground Terminal | AB | | TINSE0577AFZZ | Operation Manual (RG-5850E) | ** |
| | | | | | SPAKC1183AFZZ | Packing Case (RG-5850E) | ** |